

4.7	20.9	1131	13	BX356147	BX356147	BX356147
44.6	19.8	1201	13	BX347279	BX347279	BX347279
44.2	19.6	1108	13	BX318757	BX318757	BX318757
43.8	19.5	1155	9	AL514851	AL514851	AL514851
43.8	19.1	43	773	BX3561761	AQ781761	HS_3.122
42.8	19.0	1091	13	BX324950	BX324950	BX324950
42.4	18.8	1121	13	BX338325	BX338325	BX338325
42.2	18.8	542	72	BUT22265	BUT22265	SUMAFC03
42.2	18.8	1056	13	BX315058	BX315058	BX315058
42	18.7	1201	13	BX462207	BX462207	BX462207
41.8	18.6	964	29	CN0058MA	AL060432	Drosophila
41.2	18.3	1101	29	CN000D90	AM054318	UI-HF-BB
41	18.2	290	10	AN004318	BC022853	Homo_sapiens
41	18.2	451	14	BCC22863	AZ253166	216PbB05
40.6	18.0	1562	11	BX380865	BX561821	BX561821
40.6	18.0	595	28	AZ233166	AM161821	AM161821
40.6	18.0	957	29	CN0058MA	AM511821	AM511821
40.4	18.0	516	13	BX35615W	BX35615W	BX35615W
40.4	18.0	525	10	BX361821	BX361821	BX361821
40.4	18.0	525	10	AW81028	AM381028	CML-HT03
40.4	18.0	999	13	BX380865	BX380865	BX380865
40.4	18.0	1201	13	BX385531	BX385531	BX385531
40	17.8	475	10	BX325739	BX325739	NF055G00
40	17.8	61	29	CE160147	CD649651	TIGR-G18
40	17.8	945	13	BX318213	BX418213	BX418213
40	17.8	1081	28	CC247576	CC247576	CC247576
40	17.8	1098	13	BX377526	BX377526	BX377526
40	17.8	1201	13	BX458169	BX458169	BX458169
39.8	17.7	208	9	AU071524	AU071524	AU071524
39.8	17.7	617	29	CD649651	CD649651	CD649651
39.8	17.7	638	14	CE160147	CE160147	CE160147
39.8	17.7	647	28	B83740	B83740	CpG0090B_C
39.8	17.7	800	14	CB971606	CB971606	CB971606
39.9	17.7	890	14	CB756780	CB756780	CB756780
39.8	17.7	1201	13	BX421216	BX421216	BX421216
39.6	17.6	358	14	CD801440	CD801440	CD801440
39.6	17.6	638	14	CE160147	CE160147	CE160147
39.6	17.6	409	13	BO451684	BO451684	BO451684
39.6	17.6	524	28	AZ055107	AZ055107	RPC1-23
39.6	17.6	941	28	BH133309	BH133309	ENTQ0107
39.6	17.6	1195	13	BX355698	BX355698	BX355698
39.4	17.5	189	12	BUT351968	BUT351968	BUT351968
39.4	17.5	985	9	AL520226	AL520226	AL520226
ALIGNMENTS						
SEQUENCES						
AA502552	ng62e06_s1	NCI_CGAP_Lip2	341 bp	mRNA	linear	EST 19-AUG-11
AA502552	EST.	Homo_sapiens	Homo_sapiens	cdNA clone	IMAGE:939394,	mm
AA502552.1	GI:2237519	Homo_sapiens	(human)			
SM	Homo_sapiens	Homo_sapiens				
SM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi					
SM	Mammalia; Eutheria; Primates; Catarhini; Hominidae; Homo.					
S	1 (bases 1 to 341)					
S	NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.					
S	National Cancer Institute, Cancer Genome Anatomy Project (CGAP),					
S	Tumor Gene Index					
S	Unpublished (1997)					
	Contact: Robert Strausberg, Ph.D.					
	Email: cgapsr@mail.nih.gov					
	Tissue Procurement: L. Jeffrey Medeiros, M.D., Michael R.					
	Emmett-Buck, M.D., Ph.D.					
	CDNA Library Preparation: David B. Krizman, Ph.D.					
	CDNA Library Arrayed by: Greg Lennon, Ph.D.					
	CDNA Sequencing by: Washington University Genome Sequencing Center					
	Clone distribution: NCI-CGAP clone distribution information can					
	found through the T.I.M.E.-CGAP image.html at:					
	www-bio.llnl.gov/bbrp/IMAGE/image.html					

ORIGIN						
Query Match	52.0%;	Score 117;	DB 9;	Length 362;		
Best Local Similarity	100.0%;	Pred. No. 6..5..13..;				
Matches	117;	Conservative	0;	Mismatches	0;	Gaps
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Qy	169	ATGGCTACTCATTTGATCTGCTCTCTGATCAATTAGGATTTTTTTT	225			
Db	61	ATGGCTACTCATTTGATCTGCTCTCTGATCAATTAGGATTTTTT	117			
RESULT 4						
CNS00DKY	CNS00DKY	928 bp	DNA	linear	GSS	04-JUN-1999
LOCUS	Drosophila melanogaster	genome survey sequence	T7	end of BAC	#	
DEFINITION	BACR2TA24 of RPCI-98 library from Drosophila melanogaster (fruit fly), genomic survey sequence.					
ACCESSION	AL071865					
VERSION	AL071865.1	GI:4948170				
KEYWORDS	GSS.					
SOURCE	Drosophila melanogaster (fruit fly)					
ORGANISM	Drosophila melanogaster					
REFERENCE	Bukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha; Ephydriodea; Drosophilidae; Drosophila.					
AUTHORS	1 (bases 1 to 928)					
TITLE	Genoscope.					
JOURNAL	Direct Submission					
COMMENT	Submitted (02-JUN-1999) Genoscope - Centre National de Sequençage : BP 191 91006 EVRY cedex 9 - FRANCE (E-mail : seqref@genoscope.cns.fr)					
COMMENT	- Web : www.genoscope.cns.fr					
COMMENT	Determination of this BAC-end sequence was carried out as part of a collaboration with the Berkeley Drosophila Genome Project (BDGP). The BDGP is constructing a physical map of the Drosophila melanogaster genome using these BACs. For further information please see http://www.fruitfly.org The BDGP Drosophila melanogaster BAC library was prepared by Kazutomo Osoegawa and Aaron Mammsoer in Pieter de Jong's laboratory in the Department of Cancer Genetics at the Roswell Park Cancer Institute in Buffalo, NY. The library is named RPCI-98 and was constructed by partial EcoRI digestion of Drosophila DNA provided by the BDGP from the isogenic strain Y2; cn bw sp, the same strain used for the BDGP's P1 and EST libraries. A more detailed description of the library and how to order individual BAC clones, the entire library, or filters for hybridization from the BACPAC Resource Center can be found at http://bacpac.med.buffalo.edu/drosophila.bac.htm .					

RESULT 6		SOURCE	Homo sapiens (human)
BX324729/c	BX324729 1201 bp mRNA linear EST 02-MAY-2003	ORGANISM	Homo sapiens
DEFINITION	BX324729 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA clone CSOD1037YJ05 5'-PRIME, mRNA sequence.	REFERENCE	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 1108)
ACCESSION		AUTHORS	Li, W.B., Gruber, C., Jesse, J. and Polayes, D.
VERSION	BX324729	TITLE	Full-length cDNA libraries and normalization
KEYWORDS	BX324729.1 GI:30338394 EST.	JOURNAL	Unpublished (2001)
SOURCE	Homo sapiens (human)	COMMENT	Contact: Genoscope Genoscope - Centre National de Sequençage
ORGANISM			BP 191 91006 EVRY cedex - France
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 1201)		FEATURES	Email: seq@genoscope.cns.fr, Web: www.genoscope.cns.fr
REFERENCE		SOURCE	Library was constructed by Life Technologies, a division of Invitrogen. Contact : Feng Liang Email : fliang@lifetech.com URL : http://fulllength.invitrogen.com/ Invitrogen Corporation 1600 Faraday Avenue Genoscope sequence ID : CSODF009BD09QPi.
AUTHORS	Li, W.B., Gruber, C., Jesse, J. and Polayes, D.		
TITLE	Full-length cDNA libraries and normalization		
JOURNAL	Unpublished (2001)		
COMMENT	Contract: Genoscope Genoscope - Centre National de Sequençage		
	BP 191 91006 EVRY cedex - France		
	Email: seq@genoscope.cns.fr, Web: www.genoscope.cns.fr		
	Library was constructed by Life Technologies, a division of Invitrogen. This sequence belongs to sequence cluster 3281.r. For more information about this cluster, see http://www.genoscope.cns.fr/cgi-bin/cluster.cgi?seq=CSOAI037CE03QPi&cluster=3281.r. Contact : Feng Liang Email : fliang@lifetech.com URL : http://fulllength.invitrogen.com/ Invitrogen Corporation 1600 Faraday Avenue Genoscope sequence ID : CSOAI037CE03QPi.		
FEATURES	Location/Qualifiers		
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source			
RESULT 6		SOURCE	Homo sapiens
BX324729/c	BX324729 1201 bp mRNA linear EST 02-MAY-2003	ORGANISM	Homo sapiens
DEFINITION	BX324729 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA clone CSOD1037YJ05 5'-PRIME, mRNA sequence.	REFERENCE	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 1108)
ACCESSION		AUTHORS	Li, W.B., Gruber, C., Jesse, J. and Polayes, D.
VERSION	BX324729	TITLE	Full-length cDNA libraries and normalization
KEYWORDS	BX324729.1 GI:30338394 EST.	JOURNAL	Unpublished (2001)
SOURCE	Homo sapiens (human)	COMMENT	Contact: Genoscope Genoscope - Centre National de Sequençage
ORGANISM			BP 191 91006 EVRY cedex - France
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 1108)		FEATURES	Email: seq@genoscope.cns.fr, Web: www.genoscope.cns.fr
REFERENCE		SOURCE	Library was constructed by Life Technologies, a division of Invitrogen. Contact : Feng Liang Email : fliang@lifetech.com URL : http://fulllength.invitrogen.com/ Invitrogen Corporation 1600 Faraday Avenue Genoscope sequence ID : CSODF009BD09QPi.
AUTHORS	Li, W.B., Gruber, C., Jesse, J. and Polayes, D.		
TITLE	Full-length cDNA libraries and normalization		
JOURNAL	Unpublished (2001)		
COMMENT	Contract: Genoscope Genoscope - Centre National de Sequençage		
	BP 191 91006 EVRY cedex - France		
	Email: seq@genoscope.cns.fr, Web: www.genoscope.cns.fr		
	Library was constructed by Life Technologies, a division of Invitrogen. This sequence belongs to sequence cluster 3281.r. For more information about this cluster, see http://www.genoscope.cns.fr/cgi-bin/cluster.cgi?seq=CSOAI037CE03QPi&cluster=3281.r. Contact : Feng Liang Email : fliang@lifetech.com URL : http://fulllength.invitrogen.com/ Invitrogen Corporation 1600 Faraday Avenue Genoscope sequence ID : CSOAI037CE03QPi.		
FEATURES	Location/Qualifiers		
	1..1201		
source			
RESULT 8		SOURCE	Homo sapiens
AL514851	AL514851 1155 bp mRNA linear EST 08-MAY-2003	ORGANISM	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 1155)
LOCUS	AL514851 Homo sapiens NEURBLASTOMA Homo sapiens cDNA c.1	REFERENCE	Li, W.B., Gruber, C., Jesse, J. and Polayes, D.
DEFINITION	CL0BB14ZC07 3'-PRIME, mRNA sequence.	AUTHORS	
ACCESSION	AL514851	TITLE	
VERSION	AL514851.2 GI:30464736	JOURNAL	Unpublished (2001)
KEYWORDS		COMMENT	On Feb 13, 2001 this sequence version replaced gi:12778344.
SOURCE	Homo sapiens		
ORGANISM	Homo sapiens		
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 1155)			
REFERENCE			
AUTHORS			
TITLE			
JOURNAL			
COMMENT			
RESULT 7		SOURCE	Homo sapiens
BX418757/c	BX418757 1108 bp mRNA linear EST 15-MAY-2003	ORGANISM	Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 1108)
DEFINITION	BX418757 Homo sapiens FETAL BRAIN Homo sapiens cDNA clone CSODF009YJ18 5'-PRIME, mRNA sequence.	REFERENCE	Li, W.B., Gruber, C., Jesse, J. and Polayes, D.
ACCESSION	BX418757	AUTHORS	
VERSION	BX418757.1 GI:30769508	TITLE	
KEYWORDS	EST.	JOURNAL	Unpublished (2001)
SOURCE	Homo sapiens	COMMENT	Contact: Genoscope Genoscope - Centre National de Sequençage
ORGANISM			BP 191 91006 EVRY cedex - France
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bases 1 to 1108)		FEATURES	Email: seq@genoscope.cns.fr, Web: www.genoscope.cns.fr
REFERENCE		SOURCE	Library was constructed by Life Technologies, a division of Invitrogen. Contact : Feng Liang Email : fliang@lifetech.com URL : http://fulllength.invitrogen.com/ Invitrogen Corporation 1600 Faraday Avenue Genoscope sequence ID : CSODF009BD09QPi.
AUTHORS			
TITLE			
JOURNAL			
COMMENT			

Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr, Library was constructed by Life Technologies, a division of Invitrogen. This sequence belongs to sequence cluster 3301.f. For more information about this cluster, see <http://www.genoscope.cns.fr/cgi-bin/cluster.cgi?seq=CL0BB014ZC07FPI&cluster=3301.f>. Contact : Feng Liang Email: fliang@lifetech.com URL: <http://fulllength.invitrogen.com/> Invitrogen Corporation 1600 Faraday Avenue Genotype sequence ID : CL0BB014ZC07FPI.

FEATURES
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1. .1155
/organism="Homo sapiens"
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/db_xref="txon:9606"
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/tissue type="NEUROBLASTOMA"
/Clone Lib="Homo sapiens NEUROBLASTOMA"

/note="Vector: PCMVSPORT 6; 1st strand cDNA was primed with a NotI-oligo(dt) primer. Five prime end enriched, double-strand cDNA was digested with Not I and cloned into the Not I and EcoRV sites of the PCMVSPORT 6 vector. Library was not normalized."

ORIGIN

Query Match Score 43.8; DB 9; Length 1155;
Best Local Similarity 43.0%; Pred. No. 27;
Matches 65; Conservative 26; Mismatches 60; Indels 0; Gaps 0;
Qy 75 TCTAGAAGATAATTAGTTCACTCAGGTTTCAAAAGCTAACGGTGTCCCCAAAAAACG 134
Db 868 TCGSGRAAAATTTTTTCGGGGCTTTTTCGCCCTCCYCCGCCCCCMAAA 927
Qy 135 AACAAAAAAACACCTTTTAAGAGTGTGGTACTACTTGTATGGCTCC 194
Db 928 AACAAAAAAACACCTTTTAAGAGTGTGGTACTACTTGTATGGCTCC 987
Qy 195 CTGCTGAATCAATTAGGATTTTTTTT 225
Db 988 YWYYCCMAMAAAMSSCWWTTTTTTT 1018

RESULT 10
BX424950/c
LOCUS BX424950 Homo sapiens PLACENTA Homo sapiens cDNA clone CL0BA005ZA01
DEFINITION BX424950 3-PRIME, mRNA sequence.
ACCESSION BX424950
KEYWORDS EST.
SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE BP 191 91006 EURL cede - France
AUTHORS Li, W.B., Gruber, C., Jesse, J. and Polayes, D.
TITLE Full-length cDNA libraries and normalization
JOURNAL Unpublished (2001)
COMMENT Contact: Genoscope Genoscope - Centre National de Séquençage
BP 191 91006 EURL cede - France
Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr. Library was constructed by Life Technologies, a division of Invitrogen. This sequence belongs to sequence cluster 6403.r. For more information about this cluster, see <http://www.genoscope.cns.fr/cgi-bin/cluster.cgi?seq=CL0BA005ZA01FPI&cluster=6403.r>. Contact : Feng Liang Email: fliang@lifetech.com URL : <http://fulllength.invitrogen.com/> Invitrogen Corporation 1600 Parady Avenue Genoscope sequence ID : CL0BA005ZA01FPI.

FEATURES
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1. .1091
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FEATURES
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REFERENCE	1. (bases 1 to 1056) Li, W.B., Gruber,C., Jesse,J. and Polayes,D. Full-length cDNA Libraries and normalization									
AUTHORS										
TITLE										
COMMENT	Contact: Genoscope - Centre National de Sequencage BP 191 91065 EVRY cedex - France Email: seqref@genoscope.cns.fr Web : www.genoscope.cns.fr Invitrogen, a division of Life Technologies, a division of lifetech.com URL : http://fulllength.invitrogen.com/ Invitrogen Corporation 1600 Faraday Avenue Genoscope sequence ID : CS0CAP004ADD0NP1.									
FEATURES	source									
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AUTHORS Genoscope.
 JOURNAL Direct Submission
 Submitted (12-APR-2000) Genoscope - Centre National de Séquençage :
 BP 191 91106 EVRY Cedex - FRANCE (E-mail : seqre@genoscope.cns.fr
 - Web : www.genoscope.cns.fr)
 COMMENT This sequence is a single read and was generated as part of a large
 scale clone-end sequencing project of the Tetraodon nigroviridis
 Genome. For more information, please take a look at
<http://www.genoscope.cns.fr/Tetraodon>

FEATURES source
 1. 964
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 /clone_1kb="A"
 /note="Genoscope sequence ID : COAA002DAA1~end : T3"

ORIGIN

	Query	Match	Score	DB	Length
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Db	TGCTGATTINCCGGTGTGACCATTITAGCCGTACATTATGGATTTCATGTTAA	821	52.4	74	762
Qy	TGGTTTACATTACATTGTTCACTGGTTCAAGCTACGCTTC 123	64			
Db	NATTTCATACATTAAACATTATGTTATGATGATGTCNRAAATTAGTTGTAT 702	761			
Qy	CCCAAAACGAAACACAAACAAACACCTTTAAGGTTGATG 171	124			
Db	TAAAAAAGAAAAACAAAAAAATCAAGCAAGTTCTTCAGATTCTG 654	701			

Search completed: July 27, 2004, 23:03:09
 Job time : 2781 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw mode.
Run on: July 27, 2004, 17:03:10 ; Search time 3655 Seconds
(without alignments) 2668.176 Million cell updates/sec

Perfect score: 225
Sequence: 1 tgatgttaatgttgttcagg.....attaggaattttttttt 225
Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
Searched: 3470272 seqs, 2167151695 residues
Total number of hits satisfying chosen parameters: 6940544
Minimum DB seq length: 0
Maximum DB seq length: 20000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
Database : GenEmbl:
1: gb_ba: *
2: gb_htg: *
3: gb_in: *
4: gb_om: *
5: gb_nv: *
6: gb_pat: *
7: gb_ph: *
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13: gb_un: *
14: gb_vl: *
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41: em_htg_other: *

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	225	100.0	225	6	AX202128		AX202128 Sequence
c	2	100.0	143800	2	AC011875	Homo sapi	AC011875 Homo sapi
c	3	100.0	186965	9	AP000848	Homo sapi	AP000848 Homo sapi
c	4	175.6	78.0	2	AP01320	Homo sapi	AP01320 Homo sapi
c	5	128.4	57.1	75002	AC023384	Homo sapi	AC023384 Homo sapi
c	6	147.2	21.0	85916	AC117080	Dictyoste	AC117080 Dictyoste
c	7	46.2	20.5	252248	AC04553	Rattus no	AC04553 Rattus no
c	8	45.8	20.4	110000	PFM0113_04	Continuation (5 of	Continuation (5 of
c	9	45.2	20.1	99971	U67577	Methanococc	U67577 Methanococc
c	10	45.2	20.1	110000	AR21569_01	Continuation (2 of	Continuation (2 of
c	11	45.2	20.1	231461	AC096278	Rattus no	AC096278 Rattus no
c	12	45	20.0	170419	AC146265	Pan trogl	AC146265 Pan trogl
c	13	44.4	19.7	147727	AL329001	Mouse DNA	AL329001 Mouse DNA
c	14	44	19.6	148750	AC104893	Mus muscu	AC104893 Mus muscu
c	15	43.8	19.5	200110	AC117237	Acidic raf	AC117237 Mus muscu
c	16	43	19.1	182163	BX000690	Oryza sat	BX000690 Oryza sat
c	17	42.6	18.9	127902	AP005406	Plasmodiu	AP005406 Plasmodiu
c	18	42.4	18.8	199551	AE014844	AE014844	AE014844 Plasmodiu
c	19	42.4	18.8	251551	AE014844	AE014844	AE014844 Plasmodiu
c	20	42	18.7	147760	AC011846	Homo sapi	AC011846 Homo sapi
c	21	42	18.7	151802	AC114263	Dictyoste	AC114263 Dictyoste
c	22	41.8	18.6	215467	AC013420	Homo sapi	AC013420 Homo sapi
c	23	41.8	18.6	215734	AC073828	Mus muscu	AC073828 Mus muscu
c	24	41.8	18.6	215734	AC11232	Homo sapi	AC11232 Homo sapi
c	25	41.6	18.5	171032	AC027460	Homo sapi	AC027460 Homo sapi
c	26	41.6	18.5	181864	BX571853	Danio rer	BX571853 Danio rer
c	27	41.6	18.5	194127	BX571853	Danio rer	BX571853 Danio rer
c	28	41.6	18.5	257650	BX323874	Danio rer	BX323874 Danio rer
c	29	41.4	18.4	110000	PFM011P1_03	Continuation (4 of	Continuation (4 of
c	30	41.2	18.3	138564	AL645950	Mouse DNA	AL645950 Mouse DNA
c	31	41	18.2	158764	AK23692	Sequence	AK23692 Sequence
c	32	41	18.2	169546	AC004157	Plasmodiu	AC004157 Plasmodiu
c	33	40.8	18.1	130355	AP003412	Oryza sat	AP003412 Oryza sat
c	34	40.8	18.1	190561	AC118446	Mus muscu	AC118446 Mus muscu
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c	43	40.4	18.0	197074	AC130714	Mus muscu	AC130714 Mus muscu
c	44	40.4	18.0	198600	AC133496	Mus muscu	AC133496 Mus muscu
c	45	40.4	18.0	199371	AC147220	Mus muscu	AC147220 Mus muscu

ALIGNMENTS

RESULT 1	AX202128	Sequence 58 from Patent	225 bp	DNA	linear	PAT 30-AUG-2001
LOCUS			W00153531.			
DEFINITION						
ACCESSION	AX202128					
VERSION	AX202128.1	GI:15391919				
KEYWORDS						
SOURCE						
ORGANISM						
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;						
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.						
REFERENCE	1					
AUTHORS	Phippard, D., Vasantakamur, G., Dotson, S. and Ma, X.J.					
TITLE	Osteoarthritis tissue derived nucleic acids, polypeptides, vectors, and cells					

JOURNAL Patent: WO 0153531-A 58 26-JUL-2001;
 Pharmaceuticals Corporation (US)
 Location/Qualifiers
 1. .225
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

ORIGIN

Query Match Similarity 100.0%; Score 225; DB 6; Length 225;
 Best Local Similarity 100.0%; Pred. No. 1. 8e-40;
 Matches 225; Conservative 0; Mismatches 0; Indels 0; Gaps 0

QY 1 TGATGGTAAAGTGTGTTAGGCATAAAATTGAAATAATTGAGGCTCCATGATATGCT 60
 Db 1 TGATGGTAAAGTGTGTTAGGCATAAAATTGAAATAATTGAGGCTCCATGATATGCT 60

QY 61 ATATGGTGTACCTTGAGAATAATTAGTTCACTAGGTTTCAAGGTCAGCTG 120
 Db 61 ATATGGTGTACCTTGAGAATAATTAGTTCACTAGGTTTCAAGGTCAGCTG 120

QY 121 TCCCCAAACGAAACAAAACAAACACTTTAAAGAGTTGATGGCTACTCAT 180
 Db 121 TCCCCAAACGAAACAAAACAAACACTTTAAAGAGTTGATGGCTACTCAT 180

QY 181 TTGATCTGCCCTCTCTGAAATTAGGATTTTTTTTT 225
 Db 181 TTGATCTGCCCTCTCTGAAATTAGGATTTTTTT 225

RESULT 2

AC011875 LOCUS 143800 bp DNA linear HTG 12-MAR-2000
 Homo sapiens clone RP11-16K5, WORKING DRAFT SEQUENCE, 26 unordered
 pieces.

AC011875 VERSION GI:7107950
 HTG; HTGS PHASE1; HTGS_DRAFT.

AC011875.3 SOURCE Homo sapiens (human)

AC011875.3 ORGANISM Homo sapiens

Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.
 1 (basses 1 to 143800)
 Birren,B., Linton,L., Nusbaum,C. and Lander,E.

Birren,B., Linton,L., Nusbaum,C. and Lander,E.
 Homo sapiens, clone RP11-16K5
 Unpublished

2 (basses 1 to 143800)
 Birren,B., Linton,L., Nusbaum,C., Lander,E., Aller,N., Anderson,M.,
 Baldwin,J., Barna,N., Beckerly,R., Boguslavsky,L., Boukhgalter,B.,
 Brown,A., Castle,A., Colangelo,M., Collinson,S., Collymore,A.,
 Cooke,P., Deirellano,K., Dewart,K., Domon,L., Doyle,M.,
 Ferreira,P., Fitzbaugh,W., Forrest,C., Funke,R., Gage,D.,
 Howland,J.C., Johnson,R., Jones,C., Kahn,L., Karatas,C., Klein,J.,
 Lehoczy,J., Lieu,C., Locke,K., Macdonald,P., Marquis,N.,
 McEwan,P., McGurk,A., McKernan,K., McLaughlin,J., Meldrim,J.,
 Morrow,J., Naylor,J., Norman,C.H., Connor,T., O'Donnell,P.,
 Peterson,K., Pollara,V., Riley,R., Roy,A., Santos,R., Severy,P.,
 Stange-Thomann,N., Stojanovic,N., Subramanian,A., Talamas,J.,
 Testafrey,S., Tirrell,A., Vassiliev,R., Vo,A., Wheeler,J., Wu,X.,
 Wyman,D., Ye,W.J., Zimmer,A., and Zody,M.

REFERENCE AUTHORS TITLE JOURNAL
 Birren,B., Linton,L., Nusbaum,C., Lander,E., Aller,N., Anderson,M.,
 Baldwin,J., Barna,N., Beckerly,R., Boguslavsky,L., Boukhgalter,B.,
 Brown,A., Castle,A., Colangelo,M., Collinson,S., Collymore,A.,
 Cooke,P., Deirellano,K., Dewart,K., Domon,L., Doyle,M.,
 Ferreira,P., Fitzbaugh,W., Forrest,C., Funke,R., Gage,D.,
 Howland,J.C., Johnson,R., Jones,C., Kahn,L., Karatas,C., Klein,J.,
 Lehoczy,J., Lieu,C., Locke,K., Macdonald,P., Marquis,N.,
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 Morrow,J., Naylor,J., Norman,C.H., Connor,T., O'Donnell,P.,
 Peterson,K., Pollara,V., Riley,R., Roy,A., Santos,R., Severy,P.,
 Stange-Thomann,N., Stojanovic,N., Subramanian,A., Talamas,J.,
 Testafrey,S., Tirrell,A., Vassiliev,R., Vo,A., Wheeler,J., Wu,X.,
 Wyman,D., Ye,W.J., Zimmer,A., and Zody,M.

REFERENCE AUTHORS TITLE JOURNAL
 Submitted (15-OCT-1999) Whitehead Institute/MIT Center for Genome
 Research, 320 Charles Street, Cambridge, MA 02141, USA
 All repeats were identified using RepeatMasker:
 Smit, A.F.A. & Green, P. (1996-1997)
 http://ftp.genome.washington.edu/RM/RepeatMasker.html

COMMENT Genome Center
 Center: Whitehead Institute/ MIT Center for Genome Research
 Center code: WIBR
 Web site: <http://www-seq.wi.mit.edu>
 Contact: sequence_submissions@genome.wi.mit.edu

Project Information	
Center	Project name: L3566
Center clone name:	16 K 5
Sequencing vector:	M13; M77815; 100% of reads
Chemistry:	Dye-terminator Big Dye; 100% of reads
Assembly program:	Phrap; version 0.960731
Consensus quality:	93387 bases at least Q40
Consensus quality:	115701 bases at least Q30
Consensus quality:	130381 bases at least Q20
Insert size:	141000; agarose-fp
Insert size:	141300; sum-of-contigs
Quality coverage:	3.7 in Q20 bases; agarose-fp
Quality coverage:	3.7 in Q20 bases; sum-of-contigs

FEATURES	*	123142	143800: contig of 20659 bp in length.	Qy	61	ATATTGGTTTACCTCAGAAGATAATTAGTTTCACTCAGGTTTCAAAGCTACCGCTG 120
source	1..143800	Location/Qualifiers		Db	50914	ATATTGGTTTACCTCAGAAGATAATTAGTTTCACTCAGGTTTCAAAGCTACCGCTG 50855
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/mol_type="genomic DNA"				Db	50854	TCCCCCAAAAAGGAAACAAACACCCCTTAAGAGTTAGTTTCACTCAGGTTTCAAAGCTACCGCTG 50795
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misc_feature	15531..17939	/note="assembly_fragment"		AUTHORS	Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P., Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.	
misc_feature	18020..20135	/note="assembly_fragment"		TITLE	Homo sapiens genomic DNA	
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misc_feature	26895..29432	/note="assembly_fragment"		AUTHORS	Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P., Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.	
misc_feature	29583..331174	/note="assembly_fragment"		TITLE	Direct Submission	
misc_feature	33275..35185	/note="assembly_fragment"		JOURNAL	Submitted (06-DEC-1999) Masahira Hattori, The Institute of Physical and Chemical Research (RIKEN), Genomic Sciences Center (GSC); 1-7-22, Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail:hattori@gsc.riken.go.jp, URL: http://hgp.gsc.riken.go.jp/; Tel:81-45-503-9111, Fax:81-45-503-9170)	
misc_feature	33286..39745	/note="assembly_fragment"		COMMENT	On Jun 16, 2003 this sequence version replaced gi:145175755.	
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				Db	83001	TTGATCTGCCTCTGCTGAATTCAATTAGGAATTTTTTT 82957

AP001320 Locus AP001320 172830 bp DNA linear HTG 30-MAY-2000
 DEFINITION Homo sapiens chromosome 11 clone RP11-79904 map 11q14, WORKING
 DRAFT SEQUENCE, 32 unordered pieces.

ACCESSION AP001320
 VERSION AP001320_2 GI:81117247
 KEYWORDS HTGS_PHASE1; HTGS_DRAFT.

ORGANISM Homo sapiens (human)
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 172830)
 Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P.,
 Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.

AUTHORS Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P.,
 Homo sapiens 172,830 genomic DNA of 11q14
 Published Only in DataBase (2000)

2 (bases 1 to 172830)
 Hattori,M., Ishii,K., Toyoda,A., Taylor,T.D., Hong-Seog,P.,
 Fujiyama,A., Yada,T., Totoki,Y., Watanabe,H. and Sakaki,Y.

JOURNAL Direct Submission
 Submitted (01-MAR-2000) Masahira Hattori, The Institute of Physical
 and Chemical Research (RIKEN) Genomic Sciences Center (GSC);
 Kitasato Univ., 1-15-1 Kitasato, Sagamihara, Kanagawa 228-8555,
 Japan. (E-mail: hattori@gsc.riken.go.jp;
 URL: http://hgp.gsc.riken.go.jp/; Tel: 81-42-778-9923;
 Fax: 81-42-778-9924; On May 30, 2000 this sequence version replaced gi:7209763.

COMMENT ----- Genome Center
 Center: RIKEN Genomic Sciences Center (GSC)
 Center clone name: RP11-79904
 ----- Summary Statistics
 Sequencing vector: PCR products; 100% of reads
 Chemistry: Dye-terminator ET amersham; 100% of reads
 Assembly program: Phrap; version 0.990329
 Consensus quality: 145816 bases at least Q40
 Consensus quality: 159404 bases at least Q30
 Consensus quality: 166388 bases at least Q20
 Insert size: 169730; sum-of-contigs
 Quality coverage: 4.17x in Q20 bases; sum-of-contigs
 Preserved 1 15732 contig of 15732 bp in length
 15833 34101 contig of 18269 bp in length
 34202 47479 contig of 13278 bp in length
 47580 57756 contig of 10177 bp in length
 57857 69426 contig of 11570 bp in length
 69527 80186 contig of 4691 bp in length
 69527 80286 contig of 100 bp in length
 69527 88989 contig of 100 bp in length
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 69527 99363 contig of 100 bp in length
 69527 99463 contig of 3971 bp in length
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 69527 103533 contig of 5531 bp in length
 69527 109064 contig of 100 bp in length
 69527 109165 contig of 100 bp in length
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 69527 113856 contig of 100 bp in length
 69527 119141 contig of 100 bp in length
 69527 119240 contig of 100 bp in length
 69527 124651 contig of 5421 bp in length
 69527 124751 contig of 100 bp in length
 69527 124762 contig of 2061 bp in length
 69527 126922 contig of 100 bp in length
 69527 131137 contig of 4415 bp in length
 69527 131338 contig of 100 bp in length
 69527 131338 contig of 100 bp in length
 69527 135079 contig of 3641 bp in length
 69527 135178 contig of 100 bp in length
 69527 138134 contig of 2956 bp in length
 69527 138135 contig of 100 bp in length
 69527 138235 contig of 3889 bp in length
 69527 142123 contig of 4211 bp in length
 69527 142124 contig of 100 bp in length
 69527 144224 contig of 2496 bp in length
 69527 144719 contig of 2517 bp in length
 69527 144819 contig of 100 bp in length
 69527 1449030 contig of 4211 bp in length
 69527 1449131 contig of 100 bp in length
 69527 151134 contig of 2004 bp in length
 69527 151135 contig of 100 bp in length
 69527 153151 contig of 2517 bp in length
 69527 153152 contig of 100 bp in length
 69527 153155 contig of 2653 bp in length
 69527 155505 contig of 100 bp in length
 69527 155605 contig of 2366 bp in length
 69527 161135 contig of 100 bp in length
 69527 161136 contig of 100 bp in length
 69527 164235 contig of 1619 bp in length
 69527 165854 contig of 1619 bp in length

Sequence updated (26-May-2000).
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 32 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.
 * 1 15732: contig of 15732 bp in length
 * 15733 15832: gap of 100 bp
 * 15733 34101: contig of 18269 bp in length
 * 34102 34201: gap of 100 bp
 * 34202 47479: contig of 13278 bp in length
 * 47480 47579: gap of 100 bp
 * 47580 57756: contig of 10177 bp in length
 * 57757 57856: gap of 100 bp
 * 57857 69446: contig of 11570 bp in length
 * 69427 69526: gap of 100 bp
 * 69527 80185: contig of 10659 bp in length
 * 80286 88989: contig of 8704 bp in length
 * 88989 89090: gap of 100 bp
 * 89090 99362: contig of 10273 bp in length
 * 99363 99462: gap of 100 bp
 * 99463 103433: contig of 3971 bp in length
 * 103434 103533: gap of 100 bp
 * 103533 109064: contig of 5531 bp in length
 * 109065 109164: gap of 100 bp
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 * 144719 144819: gap of 100 bp in length
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 * 1449030 1449131: gap of 100 bp in length
 * 1449131 151134: contig of 2004 bp in length
 * 151134 151135: gap of 100 bp in length
 * 151135 153151: contig of 2517 bp in length
 * 153151 153152: gap of 100 bp in length
 * 153152 153155: contig of 2653 bp in length
 * 153155 155505: gap of 100 bp in length
 * 155505 155605: contig of 2366 bp in length
 * 155605 161135: contig of 100 bp in length
 * 161135 161136: gap of 100 bp in length
 * 161136 164235: gap of 100 bp in length
 * 164235 165854: contig of 1619 bp in length

FEATURES source

1. .172830 Location/Qualifiers

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/mol_type="genomic DNA"

/db_xref="taxon:3606"

/chromosome="11"

/map="11q14"

/clone="RP1-79904"

1.167495 /note="assembly_fragment"

1.167496 165854: gap of 100 bp

167495: contig of 1541 bp in length

167496: gap of 100 bp

167595: contig of 1176 bp in length

167596 168771: contig of 1176 bp in length

168772 168871: gap of 100 bp

168872 170323: contig of 1451 bp in length

170323 170422: gap of 100 bp

170423 171562: contig of 1140 bp in length

171563 171662: gap of 100 bp

171663 172830: contig of 1168 bp in length.

Db 29089 TTTGATTTGCCCTCTGTCATGGTACATAGGGATTTCTTTT 29134

RESULT 5

AC023384 LOCUS AC023384 75002 bp DNA linear HTG 13-JUL-2000

DEFINITION Homo sapiens chromosome 11 c₁clone RP1-589112 map 11, LOW-PASS

SEQUENCE SAMPLING.

ACCESSION AC023384

VERSION AC023384.2 GI:9144035

HTG; HTGS PHASE0.

KEYWORDS Homo sapiens (human)

ORGANISM Homo sapiens

SOURCE Homo sapiens

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 75002)

AUTHORS Birren, B., Linton, L., Nusbaum, C., Lander, E., Abraham, H., Allen, N., Anderson, S., Baldwin, J., Birnbaum, N., Beda, P., Boguslavskiy, L., Boukhgalter, B., Brown, A., Burlett, G., Campopiano, A., Castle, A., Choepel, Y., Colangelo, M., Collins, S., Collymore, A., Cooke, P., DeArellano, K., Dewart, K., Dodge, S., Domano, M., Doyle, M., Fenster, J., Ferreira, P., FitzHugh, W., Forrest, C., Gage, D., Galagan, J., Gardya, S., Ginde, S., Goertze, M., Graham, L., Grand, Pierre, N., Grant, G., Hagos, B., Heaford, A., Horton, L., Howland, J.C., Iliev, I., Jones, C., Kahn, L., Karatas, A., Klein, J., Landers, T., Largoocque, K., Lehoczky, J., Levine, R., Lieu, C., Liu, G., Locke, K., Macdonald, P., Marquis, N., McCarthy, M., McBewan, P., McGuire, A., McFarland, R., McPhee, R., Melidim, J., Meneus, L., Mihova, T., Miranda, C., Mlenga, V., Morrow, J., Naylor, J., Norman, C.H., O'Connor, T., O'Donnell, P., O'Neil, D., Oliver, T.M., Peterson, K., Pierre, N., Pisman, C., Pollara, V., Raymond, C., Riley, R., Rogov, P., Rothman, D., Roy, A., Santos, R., Schauer, S., Severy, P., Spencer, B., Strange, J., Thomann, N., Stojanovic, N., Subramanian, A., Talamas, J., Tasfaye, S., Theodore, J., Tirrell, A., Travers, M., Trigilio, J., Vassiliev, H., Viel, R., Vo, A., Wilson, B., Zody, M., Wu, X., Wyman, D., Ye, W.J., Young, G., Zainoun, J., Zimmer, A. and

TITLE Direct Submission

JOURNAL Submitted (14-FEB-2000) Whitehead Institute/MIT Center for Genome Research, 320 Charles Street, Cambridge, MA 02141, USA

COMMENT On Jul 13, 2000 this sequence version replaced gi:6970532.

All repeats were identified using RepeatMasker:

Smit, A.F.A. & Green, P. (1996-1997)

http://ftp.genome.washington.edu/RM/RepeatMasker.html

----- Genome Center

Center: Whitehead Institute/ MIT Center for Genome Research

Center code: WIBR

Web site: http://www-seq.wi.mit.edu

Contact: sequence_submissions@genome.wi.mit.edu

----- Project Information

Center project name: L5114

Center Clone name: 569_I_12

* NOTE: This record contains 88 individual sequencing reads that have not been assembled into contigs. Runs of N are used to separate the reads and the order in which they appear is completely arbitrary. Low-pass sequencing is useful for identifying clones that may be gene-rich and allows overlap relationships among clones to be deduced. However, it should not be assumed that this clone will be sequenced to completion. In the event that the record is updated, the accession number will be preserved.

Query Match 78 0%

Best Local Similarity 88.9%

Matches 201; Conservative 0; Mismatches 24; Indels 1; Gaps 1;

QY 1 TGATGTAAGTTGTTCAAGCATAAAATTGAAATAATTGATGATGATGCT 60

28909 TGATGTAAGTTGTTCAAGCATAAAATTGATGATGCT 28998

61 ATATGGTTTACCTTCAAGAATATTAGTTCACTAGGTTTCAGCTTCAAGCT-ACGCT 119

28965 ATATGGTTTACCTTCAAGAATATTAGTTCACTAGGTTCAAGCTAACCT 29028

120 GTCCCCAAAGAACAAACAAACAAACCTTAAACACCCCTTAAAGGTATGGCTAACTCA 179

29029 GTCCCCAAATACGAAACCAACCTTAAACACCCCTTAAAGGTATGGCTAACTCA 29088

180 TTTGATCTGCTCTGTAATAGGAATTTTCTGTAATAGGAATTTTCTTTT 225

1674	24555:	contig of 782 bp	in length
24556	25556:	gap of 100 bp	
3328	3328:	contig of 773 bp	in length
3428	3428:	gap of 100 bp	
4179	4179:	contig of 751 bp	in length
4180	4279:	gap of 100 bp	
4280	5022:	contig of 743 bp	in length
5023	5122:	gap of 100 bp	
5865:	5865:	contig of 743 bp	in length
5966:	5965:	gap of 100 bp	
5967:	6703:	contig of 738 bp	in length
6704:	6803:	gap of 100 bp	
6804:	7554:	contig of 751 bp	in length
7555:	7654:	gap of 100 bp	
7655:	8408:	contig of 754 bp	in length
8409:	8508:	gap of 100 bp	
8509:	9255:	contig of 746 bp	in length
9255:	9354:	gap of 100 bp	
9355:	10118:	contig of 764 bp	in length
10119:	10218:	gap of 100 bp	
10219:	10978:	contig of 760 bp	in length
10979:	11078:	gap of 100 bp	
11079:	11850:	contig of 772 bp	in length
11851:	11950:	gap of 100 bp	
11951:	12712:	contig of 762 bp	in length
12713:	12812:	gap of 100 bp	
12813:	13553:	contig of 741 bp	in length
13554:	13653:	gap of 100 bp	
13654:	14392:	contig of 739 bp	in length
14393:	14492:	gap of 100 bp	
14493:	15244:	contig of 752 bp	in length
15245:	15344:	gap of 100 bp	
15345:	16095:	contig of 751 bp	in length
16096:	16195:	gap of 100 bp	
16196:	16927:	contig of 732 bp	in length
16928:	17027:	gap of 100 bp	
17028:	17766:	contig of 739 bp	in length
17766:	17866:	gap of 100 bp	
17867:	18615:	contig of 749 bp	in length
18616:	18715:	gap of 100 bp	
18716:	19489:	contig of 774 bp	in length
19490:	19589:	gap of 100 bp	
19590:	20344:	contig of 755 bp	in length
20345:	20444:	gap of 100 bp	
21045:	21205:	contig of 761 bp	in length
21206:	21305:	gap of 100 bp	
21306:	22089:	contig of 784 bp	in length
22090:	22189:	gap of 100 bp	
22189:	22972:	contig of 783 bp	in length
22973:	23073:	gap of 100 bp	
23073:	23826:	contig of 754 bp	in length
23827:	23926:	gap of 100 bp	
23927:	24674:	contig of 748 bp	in length
24675:	24774:	gap of 100 bp	
24775:	25507:	contig of 733 bp	in length
25508:	25607:	gap of 100 bp	
25608:	2634:	contig of 740 bp	in length
26348:	2644:	gap of 100 bp	
26448:	27202:	contig of 755 bp	in length
27203:	27302:	gap of 100 bp	
27303:	28052:	contig of 750 bp	in length
28053:	28152:	gap of 100 bp	
28153:	28909:	contig of 757 bp	in length
28910:	29010:	gap of 100 bp	
29010:	29743:	contig of 732 bp	in length
29743:	29841:	gap of 100 bp	
29842:	30624:	contig of 783 bp	in length
30625:	30724:	gap of 100 bp	
30725:	31497:	contig of 773 bp	in length
31498:	31559:	gap of 100 bp	
31559:	32379:	contig of 776 bp	in length
32379:	32474:	gap of 100 bp	
32474:	32222:	contig of 741 bp	in length

TITLE Direct Submission
 JOURNAL Unpublished
 AUTHORS Worley, K.C.
 TITLE Direct Submission
 JOURNAL Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 REFERENCE 3 (bases 1 to 252248)
 AUTHORS Rat Genome Sequencing Consortium.
 TITLE Direct Submission
 JOURNAL Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 COMMENT On May 9, 2003 this sequence version replaced 9i:24818672.
 The sequence in this assembly is a combination of BAC based reads
 and whole genome shotgun sequencing reads assembled using Atlas
 (<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described
 in the feature table below represents a scaffold in the Atlas
 assembly (a 'contig-scaffold'). Within each contig-scaffold,
 individual sequence contigs are ordered and oriented, and separated
 by sized gaps filled with Ns to the estimated size. The sequence
 may extend beyond the ends of the clone and there may be sequence
 contigs within a contig-scaffold that consist entirely of whole
 genome shotgun sequence reads. Both end sequences and whole genome
 shotgun sequence only contigs will be indicated in the feature
 table.
 ----- Genome Center
 Center: Baylor College of Medicine
 Center code: BCM
 Web site: <http://www.hgsc.bcm.tmc.edu/>
 Contact: hgsc-help@bcm.tmc.edu
 ----- Project Information
 Center project name: GAW0
 Center clone name: CH230-4P5
 ----- Summary Statistics
 Assembly program: Atlas;
 Consensus quality: 225835 bases at least Q40
 Consensus quality: 225048 bases at least Q30
 Consensus quality: 229440 bases at least Q20
 Estimated insert size: 23324; sum-of-contigs estimation
 Quality coverage: 7x in Q20 bases; sum-of-contigs estimation

 * NOTE: Estimated insert size may differ from sequence length
 * (see http://www.hgsc.bcm.tmc.edu/docs/Gebbank/draft_data.html).
 * NOTE: This is a 'working draft' sequence. It currently
 * consists of 5 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.
 * 1 246259: contig of 246259 bp in length
 * 246360 246359: gap of unknown length
 * 247679: contig of 1320 bp in length
 * 247680 247779: gap of unknown length
 * 247780 249446: contig of 1667 bp in length
 * 249447 250637: gap of unknown length
 * 249547 250638: contig of 1091 bp in length
 * 250638 250738: gap of unknown length
 * 250738 252248: contig of 1511 bp in length.
 FEATURES source
 1. .252248
 /organism="Rattus norvegicus"
 /mol_type="Genomic DNA"
 /db_xref="CH230-4P5"
 misc_feature
 1. .2282
 /note="wgs end_extension
 clone_end=T7"
 misc_feature
 7986. .8866
 /note="clone_boundary

clone_end:T7
 site:EcORI
 end sequence: BH310954
 misc_feature
 240861. .242054
 /note="wgs contig"
 misc_feature
 complement(240876. .241519)
 /note="clone_boundary
 clone_end:SP6
 site:EcORI
 end sequence: BH310955
 243149. .246259
 /note="wgs end_extension
 clone_end:SP6"

ORIGIN
 Query Match 20.5%; Score 46.2; DB 2; Length 252248;
 Best Local Similarity 54.4%; Pred. No. 0.62; Indels 0; Gaps 0;
 Matches 93; Conservative 0; Mismatches 78;

QY 24 AAATTTGAAATAATGATGAGGCTCCATGATGCTATATGCTTACCTTCAGAGA 83
 Db 205591 AAAATGGCCTTCATTTCTTGTATTAACAGATTGAGCTTATTTCCATAGAGA 205650

QY 84 ATATTTGAGTTTCACTCAGTTTCAAGCTTACCGTGTCCGCCAAAAACGAAACAC 143
 Db 205651 TGCTTGAATTTCACAAAGTTTCAACTTAACTTGTCTGAAATAAAAGAAAG 205710

QY 144 AAAAAACACACCTTTAAAGATGGCTACTCATTGATCTGCCTCT 194
 Db 205711 AAAAGGAAAGAAAGAAATTCCAGTGTACTAATTAAGAATTCTCCTT 205761

RESULT 8
 PFMAL13_04
 WPCOMMENT
 Sequence split into 28 fragments LOCUS PFMAL13 Accession AL844509
 Fragment Name Begin End
 PFMAL13_00 1 110000
 PFMAL13_01 100001 210000
 PFMAL13_02 200001 310000
 PFMAL13_03 300001 410000
 PFMAL13_04 400001 510000
 PFMAL13_05 500001 610000
 PFMAL13_06 600001 710000
 PFMAL13_07 700001 810000
 PFMAL13_08 800001 910000
 PFMAL13_09 900001 1010000
 PFMAL13_10 1000001 1110000
 PFMAL13_11 1100001 1210000
 PFMAL13_12 1200001 1310000
 PFMAL13_13 1300001 1410000
 PFMAL13_14 1400001 1510000
 PFMAL13_15 1500001 1610000
 PFMAL13_16 1600001 1710000
 PFMAL13_17 1700001 1810000
 PFMAL13_18 1800001 1910000
 PFMAL13_19 1900001 2010000
 PFMAL13_20 2000001 2110000
 PFMAL13_21 2100001 2210000
 PFMAL13_22 2200001 2310000
 PFMAL13_23 2300001 2410000
 PFMAL13_24 2400001 2510000
 PFMAL13_25 2500001 2610000
 PFMAL13_26 2600001 2710000
 PFMAL13_27 2700001 27323359
 Continuation (5 of 28) of PFMAL13 from base 400001 (AL844509 Plasmodium falciparum 3D7 c

Query Match 20.4%; Score 45.8; DB 2; Length 110000;
 Best Local Similarity 51.2%; Pred. No. 0.67;
 Matches 107; Conservative 0; Mismatches 102; Indels 0; Gaps 0;

QY 17 CAGGCATATAATTGAAATAATTGAGGCTCCATGATGCTATTGGTTTACCTT 76

ORGANISM	REFERENCE	AUTHORS
<i>Rattus norvegicus</i>		Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
	1 (bases 1 to 231461)	Muzzo, D. Marie., Metzger, M. Lee., Abramzon, S., Adams, C., Alder, J., Allen, C., Allen, H., Alisbrooks, S., Annin, A., Angniano, D., Anyalobechi, V., Aoyagi, A., Ayodeji, M., Baca, E., Baden, H., Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benahmed, F., Biswalo, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M., Bryant, N., Buhay, C., Burch, P., Burrell, K., Calderon, E., Cardenas, V., Carter, K., Cavazos, J., Ceasar, H., Centro, A., Chacko, J., Chaves, D., Chen, G., Chen, Y., Chen, Z., Chu, J., Cleverland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L., Davila, M.L., Davis, C., Davy-Carroll, L., De Andra, C., Dedeich, D., Delgado, O., Denton, S., Devam, C., Ding, Y., Dini, H., Divya, K., Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K., Egan, A., Escott, O. M., Eugene, C., Evans, C.A., Falls, T., Fan, G., Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P., Fraser, C.M., Gaitisi, A., Ganta, R., Garcia, T., Garner, T., Garza, M., Georgis, E., Geer, K., Gill, R., Grady, M., Guerrra, W., Gunaratne, P., Haland, N., Hami, C., Hamilton, C., Hamilton, K., Harvey, Y., Havlik, P., Hawes, A., Henderson, N., Hernandez, J., Hernandez, R., Hines, S., Hoaden, S.J., Hodges, M., Hollins, B., Howells, S., Hulyk, S., Hume, J., Idebird, D., Jackson, A., Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, D., Karpathy, S., Kelly, S., Kelly, H., Khan, Z., King, L., Kovar, C., Kowis, C., Krft, C.L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J., Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J., Lorenshewa, L., Louiseged, H., Lozada, R.J., Lu, X., Ma, J., Maheshwari, M., Mahindarne, M., Mahmoud, M., Malloy, K., Mangum, A., Mangun, B., Mapua, P., Martin, K., Martin, R., Martinez, E., Mawhiney, S., McLeod, M.P., McNeill, T.Z., Meenen, B., Milosavljevic, A., Miner, G., Minja, E., Montemayor, J., Moore, S., Morgan, M., Morris, K., Morris, S., Munidas, M., Murphy, M., Nair, L., Nankervis, C., Neal, D., Newton, N., Noyen, N., Morris, S., Nwakulemen, J., Okwou, G., Olarmpunsgao, A., Pal, S., Parks, K., Pasternak, S., Paul, H., Perez, A., Perez, L., Pfarrnkoch, C., Plopper, F., Poindexter, A., Popovic, E., Primus, E., Pu, L.-L., Puaoz, M., Quiroz, J., Rachin, E., Reeves, K., Regier, M.A., Reigh, R., Rivery, C., Rodkey, T., Rojas, A., Rose, R., Ruiz, S.J., Sanders, W., Savery, G., Scherer, S., Scott, G., Shatsman, S., Shen, H., Shetty, J., Shvartsbeyn, A., Sisson, I., Sitter, C.D., Smaja, D., Sneed, A., Soderren, B., Song, X.-Z., Sorelle, R., Sosa, J., Steimle, M., Strong, R., Sutton, A., Svatka, A., Tabor, P., Taylor, C., Taylor, T., Thomas, N., Thomas, S., Tiguey, A., Trejos, S., Usmani, K., Valas, R., Vera, V., Villasana, D., Waldron, L., Walker, B., Wang, J., Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F., Wright, G., Wilson, J., Wleczky, R., Wooden, R., Worley, K., Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von Niederaussem, A., Weiss, D.R., Smith, R.A., Holt, R.A., Weinstock, G., and Gibbs, R.A., Weinstock, H.O., Weinstock, H.O.,

TITLE	Direct Submission	Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
REFERENCE	Unpublished	
2	(bases 1 to 231461)	
AUTHORS	Worley, K.C.	
TITLE	Direct Submission	
REFERENCE	Submitted (17-SEP-2001)	Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
AUTHORS		
TITLE	Direct Submission	
REFERENCE	Submitted (10-MAY-2003)	Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
AUTHORS		
TITLE	Direct Submission	
COMMENT		On May 10, 2003 this sequence version replaced 91:23267195. The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using <i>Atlas</i> (http://www.hgsc.bcm.edu/projects/rat/). Each contig described in the feature table below represents a scaffold in the <i>Atlas</i> .
JOURNAL		

Db 151005 TCCCTAAAGATGAAATTTCATAAAATACTAATTTTCACTTCACTT-ATGTAAGTACATCTT 151063

Qy 183 GATCTGCCCTCTCTGTGATCAATTAGGGATTTTTTT 224

Db 151064 CTTTGGCGCTGTTGATTCTCCAAATTCTATAAT 151105

RESULT 12

AC146265_c

AC146265 DEFINITION Pan troglodytes BAC clone RP43-28021

AC146265 ACCESSION PRI 29-OCT-2003

AC146265.2 VERSION 7, complete sequence.

KEYWORDS FISH.

ORGANISM Pan troglodytes (chimpanzee)

Pan troglodytes

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Butheria; Primates; Catarrhini; Hominidae; Pan.

REFERENCE 1 (bases 1 to 170419)

Van Brunt,A. and Hagnell,K.

The sequence of Pan troglodytes BAC clone RP43-28021

Unpublished (2001)

2 (bases 1 to 170419)

Sulston,J.E. and Wilson,R.

Sequencing of Pan troglodytes

Unpublished (2001)

3 (bases 1 to 170419)

Wilson,R.K.

Direct Submission

Submitted (01-AUG-2003) Genetics, Genome Sequencing Center, 4444

Forest Park Parkway, St. Louis, MO 63108, USA

REFERENCE 4 (bases 1 to 170419)

Wilson,R.K.

Direct Submission

Submitted (10-SEP-2003) Genetics, Genome Sequencing Center, 4444

Forest Park Parkway, St. Louis, MO 63108, USA

REFERENCE 5 (bases 1 to 170419)

Wilson,R.K.

Direct Submission

Submitted (08-OCT-2003) Genetics, Genome Sequencing Center, 4444

Forest Park Parkway, St. Louis, MO 63108, USA

REFERENCE 6 (bases 1 to 170419)

Wilson,R.

Direct Submission

Submitted (29-OCT-2003) Department of Genetics, Washington

University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA

On Oct 8, 2003 this sequence version replaced gi:33387218.

----- Genome Center

Center: Washington University Genome Sequencing Center

Center code: WUGC

Web site: <http://genome.wustl.edu>

Contact: submissions@watsen.wustl.edu

----- Summary Statistics

Center project name: C_PT028021

NOTICE: This sequence may not represent the entire insert of this

clone. It may be shorter because we only sequence overlapping

clone sections once, or longer because we provide a small overlap

between neighboring data submissions.

This sequence was finished as follows unless otherwise noted:

all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

MAPPING INFORMATION:

Mapping information for this clone was provided by Dr. Wes Warren, Department of Genetics, Washington University, St. Louis MO. For

additional information about the map position of this sequence, see <http://genome.wustl.edu>

SOURCE INFORMATION:

The RP43 BAC Library has been constructed by Chung-Li Shu. DNA was isolated from white blood cells obtained from a male chimpanzee (Pan troglodytes 'Clint', Yerkes #CO471, birthdate: 6-6-80). The clone and detailed information can be obtained from ResGen (<http://www.resgen.com>) or Pieter de Jong and co-workers at <http://www.bacpac.chori.org>.

NEIGHBORING SEQUENCE INFORMATION:
This sequence is the entire insert of the clone.

Location/Qualifiers

1 (170419

/clone_lib=RPCI-43"

46167..46239

/note="Sequence derived from one plasmid subclone."

46401..46732

/note="Sequence derived from one plasmid subclone."

46821..47724

/note="Sequence derived from PCR product of project DNA."

73602..73832

/note="Sequence derived from one plasmid subclone."

75265..75545

/note="Sequence derived from PCR product of project DNA."

143618..143701

/note="Sequence derived from one plasmid subclone."

169962..169963

/transposon="Bacterial transposon insertion in clone

excised here."

ORIGIN

Query Match 20.0% Score 45; DB 9; Length 170419;
Best Local Similarity 54.5%; Pred. No. 1.2; Matches 90; Indels 0; Gaps 0;

QY 55 TATGCTATATTGGTTTACCTTCAGAGAAATTATAGTTTCACTCAGTTTTCATAAGCT 114
Db 40410 TACGTTTTGGCTTGCCTTCCTTCACATTCTTAGCCCTTGAATTTCATAAT 40351

QY 115 ACCTGTCGCCCAAAAGAACAAACAAACACACCTTTAGAGTGTGATGGT 174
Db 40350 AAATTTCCTCTGATTTAAAAAAAGAGGTTTATGAGGTTCTCT 40291

QY 175 ACTATTTGATCNGCCTCTGTTGATCAATTAGGAAATT 219
Db 40290 TTCTATGAAATGTCCTTCTATCRAFTGGCTCTT 40246

RESULT 13

AL929001/c

LOCUS AL929001 Mouse DNA sequence from clone RP23-324H1 on chromosome 2, complete sequence.

DEFINITION AL929001

ACCESSION AL929001

KEYWORDS HTG.

SOURCE Mus musculus (house mouse)

ORGANISM Mus musculus

MAMMALIA; Eutheria; Rodentia; Muridae; Murinae; Mus.

REFERENCE 1 (bases 1 to 147727)

AUTHORS Almeida,J.

TITLE Direct Submission

JOURNAL Submitted (16-JAN-2003) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries:

COMMENT humquery@sanger.ac.uk Clone requests: clonerequest@sanger.ac.uk
 On Jan 17, 2003 this sequence version replaced gi:27764016.
 Sequence from the Mouse Genome Sequencing Consortium whole genome shotgun may have been used to confirm this sequence. Sequence data from the whole genome shotgun alone has only been used where it has a phred quality of at least 30.

----- Genome Center

Center: Wellcome Trust Sanger Institute
 Center code: SC
 Web site: <http://www.sanger.ac.uk>
 Contact: humquery@sanger.ac.uk

During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clones, as we submit sequences with only a small overlap as described above.

This sequence was finished as follows unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e. phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest, except on the rare occasion of the clone being a YAC.

The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases:

Em, EMBL; Sw, SWISSPROT; Tr, TREMBL; Mp, WORMPEP; Information on the WORMPEP database can be found at http://www.sanger.ac.uk/Projects/C_elegans/wormpep RP23-324H1 is constructed from the RPCI-23 Mouse BAC Library constructed by the group of Pieter de Jong.
 For further details see <http://www.chori.org/baepac/home.htm>

VECTOR: FBAC2.6.

FEATURES

source

1. 147727

/organism="Mus musculus"
 /mol type="Genomic DNA"
 /db_xref=taxon:10090"
 /chromosome="2"
 /clone="RP23-324H1"
 /clone_lib="RPCI-23"

ORIGIN

Query Match 19.7% Score 44.4; DB 10; Length 147727;
 Best Local Similarity 6.7%; Pid: No. 1.7;
 Matches 69; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

Qy 74 CTTTCAGAGAAATTTAGTTTCAAGGTCTTCAGGTTTCAAGGTCTCCCTCCAAAAAAC 133
 Db 87190 CTACAAAGTGAAGTCAAGGACCACTTAAAGAGAAACACTCTCGAAAAAC 87431

Qy 134 GAAACAAACAAACAAACAAACACCTTTAAGAGTTGATGGCTACTATTTG 183
 Db 87430 AAAACAAACAAACAAACAAACAAACATTCTATTGGATTCTAAGAATTG 87381

RESULT 14
 AC104893/C
 LOCUS AC104893 148750 bp DNA linear HTG 16-JUL-2003
 DEFINITION Mus musculus clone RP23-288015, WORKING DRAFT SEQUENCE, 5 ordered pieces.
 AC104893 AC104893 4 GI:32813580
 VERSION HTGS PHASE2; HTGS DRAFT; HTGS_FULLTOP.
 KEYWORDS SOURCE Mus musculus (house mouse)
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 REFERENCE 1 (bases 1 to 148750)
 AUTHORS Birren B, Nusbaum C, and Lander E.
 TITLE Mus musculus, clone RP23-288015

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 REFERENCE 2 (bases 1 to 148750)
 AUTHORS Birren B, Linton L, Nusbaum C, Lander E, Ali, A., Allen, N., Anderson, S., Barna, N., Bastien, V., Boguslavsky, I., Boukhgalter, B., Brown, A., Camarota, J., Campopiano, A., Chang, J., Collymore, A., Cooke, P., Colangelo, M., Collins, S., Collymore, A., Cook, A., Cooke, P., DeBrellano, K., Diaz, J.S., Dodge, S., Faro, S., Ferreira, P., FitzHugh, W., Gage, J., Galagan, J., Gardyna, S., Grinde, S., Gord, S., Guyette, M., Graham, L., Grand-Pierre, N., Hagos, B., Heaford, A., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Karatas, A., Karatas, T., Larocque, K., Levine, R., Liu, G., Lamazares, R., Landers, T., Lehoczky, J., Levine, R., Liu, G., MacLean, C., McDonald, P., Major, J., Marquis, N., Matthews, C., McCarthy, M., McEwan, P., McKernan, K., McPhee, R., Meldrum, J., Meneus, L., Mihova, T., Mlecnica, V., Murphy, T., Neil, D., Norbu, C., Norman, C.H., O'Connor, T., O'Donnell, P., O'Neil, D., Oliver, J., Peterson, K., Phunkhwa, P., Pollara, V., Raymond, C., Rettar, R., Rieback, M., Riley, R., Rise, C., Rogov, P., Roman, J., Rosetti, M., Roy, A., Santos, R., Schauer, S., Schupback, R., Seaman, S., Severy, P., Spencer, B., Strange-Thomann, N., Stojanovic, N., Strauss, N., Subramanian, A., Talamas, J., Testayre, S., Theodore, J., Topham, K., Traviers, M., Travis, N., Trigilio, J., Vassiliev, H., Viel, R., Vo, A., Wilcox, B., Wu, X., Wyman, D., Ye, W.J., Young, G., Zainoun, J., Zembek, L., Zimmer, A., and Zody, M.

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 REFERENCE 3 (bases 1 to 148750)
 AUTHORS Birren, B., Abuelleil, A., Allen, N., Anderson, M., Arachchi, H.M., Barna, N., Bastien, V., Bloom, T., Boguslavsky, I., Boukhgalter, B., Camarota, J., Chang, J., Choepel, Y., Collymore, A., Cook, A., Cooke, P., Corum, B., DeBrellano, K., Diaz, J.S., Dodge, S., Dooley, K., Dorris, L., Erickson, J., Faro, S., Ferreira, P., Fitzgerald, M., Gage, D., Galagan, J., Hagez, N., Graham, L., Grand-Pierre, N., Hafez, N., Hagopian, D., Hagos, B., Hall, J., Horton, L., Hulme, W., Iliev, I., Johnson, R., Jones, C., Karatas, A., Karatas, T., Levine, R., Lindblad-Toh, K., Liu, X., Lui, A., Mabbitt, R., Maclean, C., MacLeod, P., Major, J., Manning, J., Matthews, C., McCarthy, M., Meldrum, J., Meneus, L., Mihova, T., Mlecnica, V., Murphy, T., Neil, D., Nguyen, C., Nicol, R., Norbu, C., O'Connor, T., O'Donnell, P., O'Neil, D., Oliver, J., Peterson, K., Phunkhwa, P., Pierre, N., Rachupka, A., Ramasamy, U., Raymond, C., Rettar, R., Rise, C., Rogov, P., Roman, J., Schauer, S., Schupback, R., Seaman, S., Severy, P., Spencer, B., Strange-Thomann, N., Stojanovic, N., Stubbs, M., Talamas, J., Testayre, S., Theodore, J., Topham, K., Trigilio, J., Vassiliev, H., Venkataraman, V.S., Viel, R., Vo, A., Wilson, B., Wu, X., Wyman, D., Young, G., Zainoun, J., Zembek, L., Zimmer, A., and Zody, M.

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 REFERENCE 98 (bases 1 to 148750)
 AUTHORS Birren, B., Linton, L., Zainoun, J., Zembek, L., Zimmer, A., and Zody, M.

JOURNAL Direct Submission

REF ID: 16-JUL-2003
 REFERENCE 99 (bases 1 to 148750)
 AUTHORS Birren, B., Linton, L., Zainoun, J., Zembek, L., Zimmer, A., and Zody, M.

JOURNAL Direct Submission

REF ID: 16-JUL-2003
 REFERENCE 100 (bases 1 to 148750)
 AUTHORS Birren, B., Linton, L., Zainoun, J., Zembek, L., Zimmer, A., and Zody, M.

JOURNAL Direct Submission

REF ID: 16-JUL-2003
 REFERENCE 101 (bases 1 to 148750)
 AUTHORS Birren, B., Linton, L., Zainoun, J., Zembek, L., Zimmer, A., and Zody, M.

JOURNAL Direct Submission

REF ID: 16-JUL-2003
 REFERENCE 102 (bases 1 to 148750)
 AUTHORS Birren, B., Linton, L., Zainoun, J., Zembek, L., Zimmer, A., and Zody, M.

JOURNAL Direct Submission

REF ID: 16-JUL-2003
 REFERENCE 103 (bases 1 to 148750)
 AUTHORS Birren, B., Linton, L., Zainoun, J., Zembek, L., Zimmer, A., and Zody, M.

JOURNAL Direct Submission

REF ID: 16-JUL-2003
 REFERENCE 104 (bases 1 to 148750)
 AUTHORS Birren, B., Linton, L., Zainoun, J., Zembek, L., Zimmer, A., and Zody, M.

JOURNAL Direct Submission

REF ID: 16-JUL-2003
 REFERENCE 105 (bases 1 to 148750)
 AUTHORS Birren, B., Linton, L., Zainoun, J., Zembek, L., Zimmer, A., and Zody, M.

JOURNAL Direct Submission

REF ID: 16-JUL-2003
 REFERENCE 106 (bases 1 to 148750)
 AUTHORS Birren, B., Linton, L., Zainoun, J., Zembek, L., Zimmer, A., and Zody, M.

JOURNAL Direct Submission

REF ID: 16-JUL-2003
 REFERENCE 107 (bases 1 to 148750)
 AUTHORS Birren, B., Linton, L., Zainoun, J., Zembek, L., Zimmer, A., and Zody, M.

JOURNAL Direct Submission

REF ID: 16-JUL-2003
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 AUTHORS Birren, B., Linton, L., Zainoun, J., Zembek, L., Zimmer, A., and Zody, M.

JOURNAL Direct Submission

REF ID: 16-JUL-2003
 REFERENCE 109 (bases 1 to 148750)
 AUTHORS Birren, B., Linton, L., Zainoun, J., Zembek, L., Zimmer, A., and Zody, M.

JOURNAL Direct Submission

REF ID: 16-JUL-2003
 REFERENCE 110 (bases 1 to 148750)
 AUTHORS Birren, B., Linton, L., Zainoun, J., Zembek, L., Zimmer, A., and Zody, M.

JOURNAL Direct Submission

REF ID: 16-JUL-2003
 REFERENCE 111 (bases 1 to 148750)
 AUTHORS Birren, B

Quality coverage: 9.9 in Q20 bases; sum-of-contigs

* NOTE: This is a 'working draft' sequence. It currently consists of 5 contigs. Gaps between the contigs are represented as runs of N. The order of the pieces is believed to be correct as given, however the sizes of the gaps between them are based on estimates that have provided by the submitter.

* This sequence will be replaced

* by the finished sequence as soon as it is available and the accession number will be preserved.

* 1 67157: contig of 67157 bp in length

* 67158 67257: gap of 100 bp

* 67258 70312: contig of 3055 bp in length

* 70313 70412: gap of 100 bp

* 70413 76160: contig of 5748 bp in length

* 76161 76260: gap of 100 bp

* 76261 91722: contig of 15462 bp in length

* 91723 91822: gap of 100 bp

* 91823 148750: contig of 56928 bp in length.

FEATURES

source

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Best Local Matches 101; Conservative 0; Mismatches 95; Indels 0; Gaps 0;

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Db 97863 TAAAAAAAGAAATAAAATCATAAATATTTCATAAAAGGACATCTTATAAA 97804

QY 83 ATATTTAGTTTCACTCGTTTCAAGGTCACGCTTCCCTCAAAAGGAAACAAA 142

Db 97803 AAATTTAGGAAGTCAAGGTTAACAGGAACCCGTCAAAACAAACAAAC 97744

QY 143 CAAAAAAACACCTTTAACAGTTGACTCATTTGATCTGCTCTCTGCTGAA 202

Db 97743 AACACAAACAACTTAATTATGAGATAAGCTCTATTCTATCCATCATGCT 97684

QY 203 TCAATTGGAAATT 218

Db 97683 AAATAAAATTATTTT 97668

RESULT

15

AC117237/C

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

DEFINITION

AC117237

Mus musculus (house mouse)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Rodentia; Muridae; Murinae; Mus.

REFERENCE

AUTHORS

Radionenko,M., Bielicki,L. and Doeber,A.

JOURNAL

Unpublished (2001)

REFERENCE

2 (bases 1 to 200110)

AUTHORS

McPherson,J.D. and Waterston,R.H.

JOURNAL

Direct Submission

REFERENCE

08-APR-2002

JOURNAL

Genome Sequencing Center, 4444 Forest Park

Parkway, St. Louis, MO 63108, USA

REFERENCE

McPherson,J.D. and Waterston,R.H.

JOURNAL

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16-JUL-2002

JOURNAL

Genome Sequencing Center, 4444 Forest Park

Parkway, St. Louis, MO 6

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Best Local Similarity	19.5%	43.8 -	10;	203110;
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Matches	84;	Missmatches	0;	0
Matches	84;	Conservative	0;	0
Y	75	TTCAAGAAGATAATTAGTTTCACTAGTTTCAAGCTAGGCTGTCCTCCCCAAAT		
b	105570	TACAGTGTAGTTCTAGGACAGCCGGCTAACAGAGAAACCTGTCCTAATAA		
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Y	195	CTGCGAACTCAATTAGGATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT		225
b	105450	TTTTTTTACATTAGGCTTATCTGCTT	TTTTTTTACATTAGGCTTATCTGCTT	105420

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OM nucleic - nucleic search, using sw model

Run on: July 27, 2004, 17:01:40 ; Search time 407 Seconds

Perfect score: 225 (without alignments)

Sequence: 2348.512 Million cell updates/sec

Title: US-09-765-231A-58

Scoring table: IDENTITY_NUC Gapop 10.0 , Gapext 1.0

Searched: 3373863 seqs, 212499041 residues

Total number of hits satisfying chosen parameters: 6747726

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100%

Listing first 45 summaries

Database : N_Geneseq_29Jan04:*

1: geneseqn1980s:*

2: geneseqn1990s:*

3: geneseqn2000s:*

4: geneseqn201as:*

5: geneseqn001bs:*

6: geneseqn2002s:*

7: geneseqn2003as:*

8: geneseqn2003bs:*

9: geneseqn2003cs:*

10: geneseqn2004s:*

Listing first 45 summaries

N_Geneseq_29Jan04:*

1: geneseqn1980s:*

2: geneseqn1990s:*

3: geneseqn2000s:*

4: geneseqn201as:*

5: geneseqn001bs:*

6: geneseqn2002s:*

7: geneseqn2003as:*

8: geneseqn2003bs:*

9: geneseqn2003cs:*

10: geneseqn2004s:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description	
1	225	100.0	225	4	AAH23128		Aah23128_Osteoarthritis	
2	225	100.0	320	7	ACA04823		Aca04823_CDNA enco	
3	48.4	21.5	11000	2	AAV21209_01		Continuation (2 of	
c 4	41	18.2	5518	6	ABK28306		Abk28306_DNA trans	
c 5	40	17.8	6809	6	AKB13134		Abk13134_Signal tr	
c 6	40	17.8	6809	6	ABL70557		Abi70557_Chemical	
c 7	40	17.8	6809	6	AAS61214		Aas61214_Human gen	
c 8	40	17.8	6809	6	ABN80174		Abn0174_Human che	
c 9	38.2	17.0	11000	6	ABA92787_1		Continuation (2 of	
c 10	38	16.9	12393	6	ABL32263		Abi32263_Human imm	
c 11	37	8	16.8	96588	8	ADA03026		Ada03026_Human MBN
c 12	37	8	16.8	96588	9	ADB2764		Abd2764_Human MBN
c 13	37	8	16.8	96588	9	ADC8506		Adc8506_Human MBN
c 14	37	4	16.6	2270	2	AAX05715		Aax05715_Human pro
c 15	37	2	16.5	778	4	AAL2862		Aal2862_Human bre
c 16	36.6	16.3	2705	2	AAV05164		Aav05164_Human gro	
c 17	36.4	16.2	345	6	ABQ85902		Abq85902_Arabidops	
c 18	36.4	16.2	1479	6	AKB1514		Akb1514_Gene #166	
c 19	36.4	16.2	7924	6	ABK40070		Abk40070_Human che	
c 20	36.4	16.2	7924	6	ABL34139		Abi34139_Human imm	
c 21	36.4	16.2	40388	4	ABL6342		Abi6342_Drosophil	
c 22	36.2	16.1	5474	6	ABV2230		Abv2230_Human pro	
c 23	36	16.0	5153	2	AAT30347		Aat30347_Human YAP	

ALIGNMENTS

RESULT 1
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ID AAH23128 standard; DNA; 225 BP.
XX
AC AAH23128;
XX
DT 17-SEP-2001 (first entry)
XX
DB Osteoarthritis tissue-derived nucleic acid sequence #58.
XX
KW Osteoarthritis; infectious disorder; Crohn's disease; sepsis; human; wound healing; osteopathic; anti-arthritis; anti-inflammatory; vulnerary; antibacterial; antiallergic; ds.
XX
KW Homo sapiens.
XX
PN WO200153531-A2.
XX
PD 26-JUL-2001.

RESULT 1
AAH23128

ID AAH23128 standard; DNA; 225 BP.
XX
AC AAH23128;
XX
DT 17-SEP-2001 (first entry)
XX
DB Osteoarthritis tissue-derived nucleic acid sequence #58.
XX
KW Osteoarthritis; infectious disorder; Crohn's disease; sepsis; human; wound healing; osteopathic; anti-arthritis; anti-inflammatory; vulnerary; antibacterial; antiallergic; ds.
XX
KW Homo sapiens.
XX
PN WO200153531-A2.

RESULT 1
AAH23128

ID AAH23128

XX

PR 18-JAN-2001; 2001WO-US000016.

XX

PR (PHARMA) PHARMACIA CORP.

XX

PI Phippard D, Vasanthakamur G, Dotson S, Ma X;

XX

DR WPI; 2001-451914/48.

XX

PT Substantially purified protein, polypeptide or their fragments, used to identify a biologically active compound or composition and treat mammalian osteoarthritis.

XX

PS Claim 1; Page 137; 144pp; English.

XX

Sequences AAH23071-23152 represent nucleic acid sequences derived from osteoarthritis tissues. The sequences are useful as probes and for the diagnosis or prognosis of mammalian osteoarthritis. The polynucleotides and polypeptides of the invention are useful for generating diagnostic reagents, as targets for small molecule drug development, generation of therapeutic, and cloning genes. Specific antibodies are used to generate enzyme linked immunosorbent assays for detection of osteoarthritis. The invented molecules can be used to treat osteoarthritis or to analyse the disease-modifying activity of osteoarthritis drugs. Other disorders treatable using the nucleic acid sequences include atopic, inflammatory

CC and infectious disorders e.g. Crohn's disease and sepsis, and wound healing

CC Sequence 225 BP; 72 A; 38 C; 35 G; 80 T; 0 U; 0 Other;

CC Query Match 100.0%; Score 225; DB 4; Length 225;

CC Best Local Similarity 100.0%; Pred. No. 1.1e-45; Matches 225; Conservative 0; Mismatches 0; Gaps 0;

CC Qy 1 TGATGGTAGTGTGTTAGGCCATAAAATTGAAATAATTGAGCTCCATGATGCT 60

CC Db 1 TGATGGTAGTGTGTTAGGCCATAAAATTGAAATAATTGAGCTCCATGATGCT 60

CC 61 ATATTGGTTTACCTTACGTTAGAAATAATTGAGCTTCAAGCTAGCTG 120

CC Db 61 ATATTGGTTTACCTTACGTTAGAAATAATTGAGCTTCAAGCTAGCTG 120

CC Qy 121 TCCCCCRAAAAGAACAAACAAACAAACACCTTTAAAGTTGATGGCTACTCAT 180

CC Db 121 TCCCCCRAAAAGAACAAACAAACACCTTTAAAGTTGATGGCTACTCAT 180

CC Qy 181 TTGATCTGCCTCTCTCTGATCAATTAGGATTTTTTTT 225

CC Db 181 TTGATCTGCCTCTCTGATCAATTAGGATTTTTTTT 225

RESULT 2

XX ACA04423 standard; cDNA; 320 BP.

XX AC ACA04423;

XX DT 28-MAY-2003 (first entry)

XX DE CDNA encoding human membrane associated protein fragment #271.

XX Human; ss; gene; microarray; membrane-associated protein; neuropathology;

XX immunopathology; pancreatic disease; cancer; diabetes; hyperlipidemia;

XX pancreatic cholera; Alzheimer's disease; Huntington's disease; sarcoma;

XX fibrocytic disease; leukaemia; adenocarcinoma; AIDS; allergy; anaemia;

XX asthma; gout; dementia.

XX Homo sapiens.

XX PN US6492505-B1.

XX PD 10-DEC-2002.

XX PF 31-JAN-2000; 2000US-00495050.

XX PR 01-FEB-1999; 99US-0118318P.

XX PA (INCYT-) INCYTE GENOMICS INC.

XX PI Reddy R, Giesler KJ, Au-Young J;

XX WPI: 2003-327324/31.

XX XX Combination for research/diagnostic applications and for monitoring

PT treatment of e.g., cancer, comprises polynucleotides comprising a

PT fragment of gene encoding membrane-associated proteins, receptors or ion

PT channels.

XX XX Claim 1; Col 251-252; 147pp; English.

CC The invention relates to a combination comprising several polynucleotide sequences comprising a fragment of gene encoding membrane-associated proteins, receptors or ion channels. The combination is useful as a probe, for research and diagnostic applications, for monitoring the expression of several expressed polynucleotides, in the diagnosis and monitoring of treatment of pancreatic disease, cancer, immunopathology or neuropathology, for investigating an individual's predisposition to the above disease, in genetic or gene expression analysis of polynucleotide

CC sequences, to investigate cellular responses to infection or drug treatment, as hybridisable array elements in a microarray, to purify a CC subpopulation of mRNAs, cDNAs or genomic fragments in a sample, in CC diagnostics, prognostics and treatment regimens, in drug discovery and CC development, in toxicological and carcinogenicity studies, and in CC forensics or pharmacogenomics, to monitor the progression of disease, to CC monitor the efficacy of treatment, to diagnose the conditions of the CC pancreas e.g. diabetes, pancreatic cholera, hyperlipidaemia or CC fibrocytic disease, to diagnose a cancer e.g. leukaemia, adenocarcinoma CC or sarcoma, to diagnose immunopathologies e.g. AIDS, allergies, anaemia, CC asthma or gout, to diagnose neuropathologies e.g. Alzheimer's disease, CC dementia or Huntington's disease, to rapidly screen large numbers of CC candidate drug molecules and as query sequences against GenBank, CC SwissProt, BLOCKS and PRINTS databases. The combination is employed to CC fine tune the treatment regimen and thus the expression patterns CC associated with undesirable side effects are avoided. The present CC sequence represents a cDNA encoding a fragment of gene encoding human CC membrane-associated proteins, receptors or ion channels

XX SQ Sequence 320 BP; 105 A; 57 C; 53 G; 105 T; 0 U; 0 Other;

CC Query Match 100.0%; Score 225; DB 7; Length 320; Best Local Similarity 100.0%; Pred. No. 1.2e-45; Matches 225; Conservative 0; Mismatches 0; Gaps 0;

CC Qy 1 TGATGGTAGTGTGTTACCTTACGTTAGAATAATTGAGCTTCAAGCTACGCTG 60

CC Db 1 TGATGGTAGTGTGTTACCTTACGTTAGAATAATTGAGCTTCAAGCTACGCTG 60

CC 61 ATATTGGTTTACCTTACGTTAGAATAATTGAGCTTCAAGCTACGCTG 120

CC Db 61 ATATTGGTTTACCTTACGTTAGAATAATTGAGCTTCAAGCTACGCTG 120

CC Qy 121 TCCCCCRAAAAGAACAAACAAACAAACACCTTTAAAGTTGATGGCTACTCAT 180

CC Db 121 TCCCCCRAAAAGAACAAACAAACACCTTTAAAGTTGATGGCTACTCAT 180

CC Qy 181 TTGATCTGCCTCTCTGATCAATTAGGATTTTTT 225

CC Db 181 TTGATCTGCCTCTCTGATCAATTAGGATTTTTT 225

RESULT 3

AAV21209_01

Continuation (2 of 17) of AAV21209 from base 100001

(Methanococcus jannaschii circular

WP Sequence split into 17 fragments

WP Locus AAV21209

WP Fragment Name

WP Begin

WP End

WP 110000

WP 210000

WP 310000

WP 410000

WP 510000

WP 610000

WP 710000

WP 700001

WP 800000

WP 900000

WP 1010000

WP 1110000

WP 1210000

WP 1310000

WP 1410000

WP 1510000

WP 1610000

WP 1664976

Query Match 21.5%; Score 48.4; DB 2; Length 110000;

Best Local Similarity 51.9%; Pred. No. 0.035%; Mismatches 101; Indels 0; Gaps 0;

Matches 109; Conservative 0; Mismatches 101; Indels 0; Gaps 0;

Qy 7 TAACTCTGAGCCCTCTATTCATCCATTTAGCTACATGTTGGTAAATTG

Db 51403 TAAATCTGAGCCCTCTATTCATCCATTTAGCTACATGTTGGTAAATTG

51462

modified using a solution of bisulphite, hydrogen sulphite or disulphite. Also disclosed are oligonucleotides and/or PNA oligomers for detecting the cytosine methylation state (CG islands) of these genes, and a method for the diagnosis and/or therapy of these genes, and a method of epigenetic parameters of genes associated with signal transduction. The genomic DNA can be obtained from cells or cellular components which contain DNA, e.g. cell lines, biopsies, blood, sputum, stool, urine, cerebral-spinal fluid, tissue embedded in Paraffin such as tissue from eyes, intestine, kidney, brain, heart, prostate, lung, breast or liver, histologic object slides, and all their possible combinations. The sequences of the invention are useful for the diagnosis and therapy of diseases associated with signal transduction e.g. solid tumours and cancer. ABK115-ABK31545 represent chemically pre-treated genomic DNA sequences of different genes associated with signal transduction, or their complementary sequences. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from the European Patent Office

SQ Sequence 6809 BP; 1792 A; 270 C; 1625 G; 3122 T; 0 U; 0 Other;

Query Match 17.8%; Score 40; DB 6; Length 6809;
Best Local Similarity 54.9%; Pred. No. 2.7;
Matches 79; Conservative 0; Mismatches 65; Indels 0; Gaps 0;
Qy 17 CAGGCATAAAATTGGAATAAAATTGAGGTCCATGATATGGCTATTTACCTT 76
Db 1384 CACAAATTAACACATATAATCGTAACACACTATTTCTTTATTAT 1325
Qy 77 CAGAAAGATAATTAGTTGTTCACTCAGGTTTTCAAAAGCTAACCTGCCCCAAAAACGAA 136
Db 1324 ACAAAACTATTAAATTAACCTGGCTATCAATTTCGTTTACTACAAATTACTT 1265
Qy 137 ACAAACAAAAAAACACCTTT 160
Db 1264 TCAAAACTTAATCATATAATTCTT 1241

RESULT 6
ABL70557/C

ID ABL70557 standard; DNA; 6809 BP.

XX

AC ABL70557;

XX DT 01-JUN-2002 (first entry)

XX DE Chemically treated cell signalling DNA sequence#224.
XX KW Cell signalling; cytosine methylation; cell signalling disease; cancer;
KW tumour; cyostatic; qs.

XX OS Unidentified.

XX PN WO200202807-A2.

XX PD 10-JAN-2002.

XX PP 29-JUN-2001; 2001WO-EP007471.

XX PR 30-JUN-2000; 2000DE-01032529.

XX PR 01-SEP-2000; 2000DE-01043326.

XX (EPIG-) EPIGENOMICS AG.

XX PI Olek A, Piipenbrock C, Berlin K;

XX XX DR 2002-154758/20.

XX PT Nucleic acid, useful for diagnosis and therapy of diseases associated with cell signalling e.g. cancer, comprises chemically modified genomic sequences of genes associated with cell signalling.

XX PS Claim 1; SEQ ID NO 447; 24pp + Sequence Listing; English.

XX XX

CC The invention relates to a nucleic acid comprising a sequence of at least 18 bases of a segment of chemically pre-treated DNA of genes associated with cell signalling. The activity of the modified sequences of the invention may be described as cyostatic. The object of the invention is to provide the chemically modified DNA of genes associated with cell signalling, as well as oligonucleotides and/or PNA-oligomers for detecting cytosine methylations, as well as a method which is particularly suitable for the diagnosis and/or therapy of genetic and epigenetic parameters of genes associated with cell signalling. The chemically modified DNA provided by the invention is useful for diagnosis and therapy of diseases such as solid tumours and cancer. The sequences given in records ABL70557-ABU70626 represent chemically pre-treated genomic DNA's of genes associated with cell signalling. Note: The sequence data for this patent is not represented in the printed specification, but is based on sequence information supplied by the European Patent Office

XX SQ Sequence 6809 BP; 1792 A; 270 C; 1625 G; 3122 T; 0 U; 0 Other;

Query Match 17.8%; Score 40; DB 6; Length 6809;
Best Local Similarity 54.9%; Pred. No. 2.7;
Matches 79; Conservative 0; Mismatches 65; Indels 0; Gaps 0;

Qy 17 CAGGCATAAAATTGGAATAAAATTGAGGTCCATGATATGGCTATTTACCTT 76
Db 1384 CACAAATTAACACATATAATCGTAACACACTATTTCTTTATTAT 1325

Qy 77 CAGAAAGATAATTAGTTGTTCACTCAGGTTTTCAAAAGCTAACCTGCCCCAAAAACGAA 136
Db 1324 ACAAAACTATTAAATTAACCTGGCTATCAATTTCGTTTACTACAAATTACTT 1265

Qy 137 ACAAACAAAAAAACACCTTT 160
Db 1264 TCAAAACTTAATCATATAATTCTT 1241

RESULT 7
AAS61214/C

ID AAS61214 standard; DNA; 6809 BP.

XX AC AAS61214;

XX DT 29-JAN-2002 (first entry)

XX DE Human gene regulation-associated gene oligonucleotide #169.
XX KW Human; Gene regulation-associated gene; severe combined immunodeficiency;
KW cardiac damage; inflammatory response; Haemophilia; Werner syndrome;
KW asthma; HDR syndrome; congenital heart defect; Saebre-Chotzen syndrome;
KW renal disease; Preeclampsia; cardiac allograft vascular disease;
KW colorectal cancer; thyroid cancer; oesophageal cancer; ds; tumour;
KW immunostimulant; cariostatic; antiinflammatory; coagulant; antiasthmatic;
KW nephrotopic; gynecological; anti-tumour; immunosuppressive; cytostatic;
XX OS Homo sapiens.

XX PN WO200177375-A2.

XX PR 18-OCT-2001.

XX PR 05-APR-2001; 2001WO-EP003968.

XX PR 06-APR-2000; 2000DE-01019058.

XX PR 07-APR-2000; 2000DE-0101913.

XX PR 30-JUN-2000; 2000DE-01032529.

XX PR 01-SEP-2000; 2000DE-01043826.

XX PA (EPIG-) EPIGENOMICS AG.

XX PI Olek A, Piipenbrock C, Berlin K;

XX XX DR 2002-017470/02.

XX XX

PT New nucleic acid sequences from chemically modified genes associated with gene regulation, useful for analyzing cytosine methylation for diagnosis and therapy of diseases e.g. severe combined immunodeficiency disease.
 PT XX
 PS XX
 PS: SEQ ID NO 173; 26pp; English.

CC The invention relates to 224 nucleic acid sequences comprising at least 18 bases of a chemically pretreated gene associated with gene regulation selected from 43 known genes (or complementary sequences). The chemical pretreatment converts cytosine bases unmethylated at the 5-position to uracil or another base with hybridisation behaviour dissimilar to cytosine, to enable analysis of cytosine methylations. The DNA sequences, oligomers (or sets/arrays) and method are useful in the diagnosis of diseases (or predisposition to diseases), associated with gene regulation and in therapy of such diseases, by enabling analysis of the cytosine methylation patterns of such genes, kits are provided. They are especially useful in diagnosis and therapy of e.g. severe combined immunodeficiency disease, cardiac disorders, haemophilia, solid tumours and cancer, Werner syndrome, asthma, HDR syndrome, Saethre-Chotzen syndrome, renal disease, preclampsia, graft versus-host disease. The present sequence is a sequence included in the sequence data for this specification and is associated with the human gene regulation-associated genes. Note: The sequence data for this parent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp://wipo.int/pub/published_pct_sequences

XX Sequence 6809 BP; 1792 A; 270 C; 1625 G; 3122 T; 0 U; 0 Other;

Qy 17.8%; Score 40; DB 6; Length 6809;
 Best Local Similarity 54.9%; Pred. No. 2.7;
 Matches 79; Conservative 0; Mismatches 65; Indels 0; Gaps 0;

Db 1384 CACAAATAAAACCAATATAATATCGTAACCACTATTCAATAATTCTTTAAATT 1325

Qy 77 CAGAGAAATTAGTTTACTCGGGTTCAAGTAGCTGTCCTAAACCAAAACCAA 136

Db 1324 ACAAAAACTATTAAATTAATCCGGTCAATTTCGTTTACTACAAATTCTT 1265

Qy 137 ACAAAACAAAAAACCACTTTT 160

Db 1264 TCAAAACCTTAATCATTAATCTT 1241

RESULT 8
 ABN80174/C
 ID ABN80174 standard; DNA; 6809 BP.

XX ABN80174;
 XX 15-JUL-2002 (first entry)

XX Human chemically modified disease associated gene SEQ ID NO 191.

XX Human; development; homeobox gene; HOX; diabetes; cancer; apoptosis;

XX heart disease; epilepsy; histone deacetylation; muscular dystrophy;

XX dwarfism; single nucleotide polymorphism; SNP; cytosine methylation;

XX antidiabetic; cytostatic; anticonvulsant; ds.

OS Homo sapiens
 OS Synthetic.

XX PN WO200200927-A2.

XX 03-JAN-2002.

XX 02-JUL-2001; 2001WO-EP007536.

XX 30-JUN-2000; 2000DE-01032529.

XX 01-SEP-2000; 2000DE-01043826.

PA (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;
 XX PI XX
 XX DR XX
 XX WPI: 2002-130908/17.

PT Novel nucleic acid useful for diagnosis and therapy of diseases associated with development selected from 350 genes listed in the specification such as ACCPN, ADEN, or AFDI and comprising one of 350 sequences (ABN80094-ABN80333) or their complements. The invention is useful for the diagnosis or therapy of diseases associated with development genes, in particular disease related to homeobox containing genes (HOX), like diabetes, cancer, apoptosis related diseases, syndromes associated with congenital heart disease, epilepsy, diseases related to histone deacetylation, Currarino syndrome, diseases related with the development of the brain and limb, Girdle muscular dystrophy and dwarfism. Oligomers specific to each of the genes are useful for detecting the methylation state of all CpG dinucleotides within the 350 sequences (II) and their complements, as primer oligonucleotides for the amplification of the 350 sequences (II) and/or their complements and as oligomer probes for detecting the cytosine methylation state and/or single nucleotide polymorphisms (SNPs). Note: the sequence data for this patent did not form part of the printed specification but is based on sequence information supplied to Derwent by the European Patent Office

XX Sequence 6809 BP; 1792 A; 270 C; 1625 G; 3122 T; 0 U; 0 Other;

Qy 17 CAGGATAAAATTGAAATAATTATGAGCTCCATGATATGGTTTACCTT 76

Db 1384 CACAAATAAAACCAATATAATATCGTAACCACTATTCAATAATTCTTTAAATT 1325

Qy 77 CAGAGAAATTAGTTTACTCGGGTTCAAGTAGCTGTCCTAAACCAAAACCAA 136

Db 1324 ACAAAAACTATTAAATTAATCCGGTCAATTTCGTTTACTACAAATTCTT 1265

Qy 137 ACAAAACAAAAAACCACTTTT 160

Db 1264 TCAAAACCTTAATCATTAATCTT 1241

RESULT 9
 ABN80174/C
 Continuation (2 of 7) of ABN802787 from base 100001 (Buchnera sp. genomic DNA SEQ ID NO:1
 WP Sequence split into 7 fragments LOCUS ABN802787 Accession Abn802787

WP	Fragment Name	Begin	End
WP	ABA92787_0	1	110000
WP	ABA92787_1	100001	210000
WP	ABA92787_2	200001	310000
WP	ABA92787_3	300001	410000
WP	ABA92787_4	400001	510000
WP	ABA92787_5	500001	610000
WP	ABA92787_6	600001	640681

Query Match 17.8%; Score 40; DB 6; Length 6809;
 Best Local Similarity 54.9%; Pred. No. 2.7;
 Matches 79; Conservative 0; Mismatches 65; Indels 0; Gaps 0;

Qy 17 CAGGATAAAATTGAAATAATTAGGTCTCATGATATGGTTTACCTT 76

Db 1384 CACAAATAAAACCAATATAATATCGTAACCACTATTCAATAATTCTTTAAATT 1325

Qy 77 CAGAGAAATTAGTTTACTCGGGTTCAAGTAGCTGTCCTAAACCAAAACCAA 136

Db 1324 ACAAAAACTATTAAATTAATCCGGTCAATTTCGTTTACTACAAATTCTT 1265

Qy 137 ACAAAACAAAAAACCACTTTT 160

Db 1264 TCAAAACCTTAATCATTAATCTT 1241

RESULT 9
 ABN80174/C
 Continuation (2 of 7) of ABN802787 from base 100001 (Buchnera sp. genomic DNA SEQ ID NO:1
 WP Sequence split into 7 fragments LOCUS ABN802787 Accession Abn802787

WP	Fragment Name	Begin	End
WP	ABA92787_0	1	110000
WP	ABA92787_1	100001	210000
WP	ABA92787_2	200001	310000
WP	ABA92787_3	300001	410000
WP	ABA92787_4	400001	510000
WP	ABA92787_5	500001	610000
WP	ABA92787_6	600001	640681

Query Match 17.0%; Score 38.2%; DB 6; Length 110000;
 Best Local Similarity 55.7%; Pred. No. 11;
 Matches 73; Conservative 0; Mismatches 58; Indels 0; Gaps 0;

Qy 32 ATATAATTAGGGTCCATATGCTATTTGCTTAAAGATAATTAGTTAG 91

Db 98302 ATATCATAATTAAACTGATATTTCAATTATGCTTCAATTATTAAG 98243

Qy 92 TTTCACTCAGGTTTCAAGCTTACGTTGCCCCAAAAACGAAACAAAAAC 151

Qy	8 AAGTGTTCAGGCTATAAATTGAAATAATTAGGCTCCATGATGCTTATGG	Qy	128 AAAAACGAAACAAAAACAAAAACACCTTTTAAAGCTGATGGTAC 176
Db	61750 ATGTCAGCATGATATTATATATATATATATATATATATATAGTA 61691	Db	61630 AAAA.....AAAAA.....AAAAA.....AAAAA.....AAAAA..... 61582
Qy	68 TTTTACCTCAGAAGATAATTAGTTCACGTTTCAAGCTTACATGCTGCCA 127	RESULT 13:	
Db	61690 AATTATAATAAGCATATAACATSCATTTTCGAGACTCTGGTCAAGCC 61631	ADC85506/C	
Qy	128 AAAAGAAACAAAACAAAACACCTTTAAGAGTGTGGTAC 176	ID ADC85506 standard; DNA; 96588 BP.	
Db	61630 AAAA.....AAAAA.....AAAAA.....AAAAA.....AAAAA..... 61582	AC ADC85506;	
RESULT 12:		XX	
ADB2764/C		XX	Human Monl genomic sequence.
ID ADB2764 standard; DNA; 96588 BP.		XX	Cytostatic; gene therapy; vaccine; cancer; carcinoma-associated gene; CA;
XX		KW	secreted; transmembrane; intracellular; ds.
AC ADB2764;		XX	
XX		OS	Homo sapiens.
DT 04-DEC-2003 (first entry)		XX	
XX		PN	WO2003045230-A2.
DE Human MBL gene.		XX	
XX		PD	05-JUN-2003.
KW human; ds; cytostatic; gene therapy; vaccine; carcinoma; lymphomas;		XX	
KW cancer; neoplasm; adenocarcinoma; sarcoma; gene.		PF	02-DEC-2002; 2002WO-US038582.
OS Homo sapiens.		XX	
XX		PR	30-NOV-2001; 2001US-0097722.
PN WO2003045230-A2.		XX	(SAGR-) SAGRES DISCOVERY.
XX		PA	
PD 30-JAN-2003.		XX	Morris DW, Engelhard EK;
XX		PI	
PF 26-DEC-2001; 2001WO-US051291.		XX	WP1; 2003-513603/48.
XX		PS	Claim 1; SEQ ID NO 292; 983bp; English.
PR 02-MAR-2001; 2001US-00798585.		XX	The invention relates to a recombinant nucleic acid comprising a nucleotide sequence selected from any of the fully defined carcinoma-associated (CA) genes from the 50 tables given in the specification. The CA proteins are secreted, transmembrane or intracellular proteins. The recombinant nucleic acids are useful for screening for drug candidates for diagnosing or treating carcinomas. Sequences given in ADC85514 represent CA genes of the invention.
PR 23-OCT-2001; 2001US-00004113.		CC	
PR 08-NOV-2001; 2001US-0052482.		CC	
PR 30-NOV-2001; 2001US-0097722.		CC	
PR 20-DEC-2001; 2001US-00034650.		CC	
XX		CC	
(SAGR-) SAGRES DISCOVERY.		CC	
XX		CC	
PI Morris DW, Engelhard EK;		CC	
XX		DR	
DR WPI; 2003-239337/23.		PS	
New recombinant nucleic acid, useful for treating carcinomas, lymphomas, cancers, neoplasm, adenocarcinoma, or sarcomas.		XX	Query Match 16.8%; Score 37.8; DB 9; Length 96588;
XX		XX	Best Local Similarity 51.5%; Pred. No. 13; Matches 87; Conservative 0; Mismatches 82; Indels 0; Gaps 0;
PS Claim 1; SEQ ID NO 592; 2304bp; English.		Qy	8 AAGTGTTCAGGCTATAAATTGAAATAATTAGGCTCCATGATGCTATGG 67
XX		Db	61750 ATGGTGGATTGTTAATTTATGCTTCCATGTCATTATAGTA 61691
CC The invention relates to a novel recombinant nucleic acid comprising a nucleotide sequence selected from any of the 660 sequences fully defined in the specification. A polynucleotide of the invention has cytostatic activity, and may have a use in gene therapy, or in a vaccine. The recombinant nucleic acids and polypeptides are useful for treating carcinomas, e.g. lymphomas, cancers, neoplasm, adenocarcinoma and sarcomas. The present sequence represents a human gene of the invention.		Qy	68 TTTTACCTCAGAAGATAATTAGTTCACGTTTCAAGCTTACGCTGCCA 127
CC Sequence 96588 BP; 29654 A; 16428 C; 18069 G; 32437 T; 0 U; 0 Other;		Db	61690 AATTATAATAAGCATATAATGCTTCAATGCTTCAATGCTTCAAGCTTACGCTGCCA 127
CC The invention relates to a novel recombinant nucleic acid comprising a nucleotide sequence selected from any of the 660 sequences fully defined in the specification. A polynucleotide of the invention has cytostatic activity, and may have a use in gene therapy, or in a vaccine. The recombinant nucleic acids and polypeptides are useful for treating carcinomas, e.g. lymphomas, cancers, neoplasm, adenocarcinoma and sarcomas. The present sequence represents a human gene of the invention.		Qy	128 AAAAGAAACAAAACAAAACACCTTTAAGACTTGTGGTAC 176
CC Sequence 96588 BP; 29654 A; 16428 C; 18069 G; 32437 T; 0 U; 0 Other;		Db	61630 AAAA.....AAAAA.....AAAAA.....AAAAA.....AAAAA..... 61582
CC Query Match 16.8%; Score 37.8; DB 9; Length 96588;		RESULT 14:	
CC Best Local Similarity 51.5%; Pred. No. 13; Matches 87; Conservative 0; Mismatches 82; Indels 0; Gaps 0;		AXX05715/C	
CC Query Match 16.8%; Score 37.8; DB 9; Length 96588;		ID AXX05715 standard; DNA; 2270 BP.	
CC Matches 87; Conservative 0; Mismatches 82; Indels 0; Gaps 0;		XX	
Qy 8 AAGTGTTCAGGCTATAAATTGAAATAATTAGGCTCCATGATGCTATGG 67		AC AXX05715;	
Db 61750 ATGGTGGATTGTTAATTTATGCTTCCATGTCATTATAGTA 61691		XX	
Qy 68 TTTTACCTCAGAAGATAATTAGTTCACGTTTCAAGCTTACGCTGCCA 127			
Db 61690 AATTATAATAAGCATATAATGCTTCAATGCTTCAAGCTTACGCTGCCA 127			

DT 07-MAY-1999 (first entry)
 XX Human protein phosphatase (PROPHO) encoding DNA.
 DE Human protein phosphatase (PROPHO) encoding DNA.
 XX Protein phosphatase; PROPHO; apoptosis; AIDS; Alzheimer's Disease;
 Acquired Immune Deficiency Syndrome; Parkinson's Disease; inflammation;
 cell proliferation; Addison's disease; allergy; anemia; cancer; bone;
 leukemia; breast; brain; human; ss.
 KW Human breast cancer expressed polynucleotide 14319.
 XX Human; breast cancer; cell marker; cytosatic; ss.
 OS Homo sapiens.
 XX Homo sapiens.
 PN WO200151628-A2.
 XX WO98556925-A1.
 PN 17-DEC-1998.
 XX 11-JUN-1998; 98WO-US011614.
 PR 11-JUN-1997; 97US-00873093.
 XX PA (INCYT -) INCYTE PHARM INC.
 PI Bandman O, Goli SK, Lal P, Corley NC, Zhang H;
 XX WPI: 1999-080906/07.
 DR P-PSDB; AW94283.
 XX New substantially purified human protein phosphatase (PROPHO) - useful in
 PT prevention or treatment of inflammation, cancer, and
 disorders associated with apoptosis.
 XX Claim 5; FIG 1A-G; 73pp; English.
 PS This DNA encodes a human protein phosphatase (PROPHO). Host cells
 XX containing a vector comprising the PROPHO nucleic acid are used for the
 recombinant production of the protein. PROPHO forms a composition in the
 treatment or prevention of apoptosis-related disorders (e.g. Acquired
 Immune Deficiency Syndrome (AIDS), Alzheimer's Disease and Parkinson's
 Disease), and in the stimulation of cell proliferation. Antagonists of
 the protein are useful in treating inflammation (e.g. Addison's disease,
 allergies and anemia), and disorders associated with cell proliferation
 (including various cancers like leukemia, and cancers affecting bone,
 breast and brain). Complementary polynucleotides are useful in detecting
 polynucleotides that encode PROPHO, useful in the diagnosis of conditions
 associated with the expression of PROPHO, and in assays that detect
 activation or induction of various cancers. PROPHO is useful in producing
 antibodies or screening libraries of pharmaceutical agents in order to
 identify those that bind to PROPHO.
 XX Sequence 2270 BP; 693 A; 344 C; 515 G; 716 T; 0 U; 2 Other;
 SQ Query Match 16.6%; Score 37.4; DB 2; Length 2270;
 Best Local Similarity 53.0%; Prd. No. 10;
 Matches 80; Conservative 0; Mismatches 71; Indels 0; Gaps 0;
 DB Query 29 TTGAAATTAATATGAGGCTCATGATATGGCTATACCTCAGAGAAATT 88
 DB 2197 TTGACATACATTGATGTGTAGGTATACAGAATAACAAACAGCTAT 2138
 Query 89 TGTGTTCACTCAGTTTCAAGCTGCTCCAAAACAGAACAAAACAAAAA 148
 DB 2137 GAAATAATCATGGTTTCAAGTTATGTTCAATAGAATACAGGAAAGAAAT 2078
 Query 149 AACAACTTTAAGAGTGTGATGGCTACTCA 179
 DB 2077 AGCCACACATCCAAATATCTCACACTCTAA 2047

AAL21862/c
 ID AAL21862 standard; cDNA; 778 BP.
 XX
 AC AAL21862;
 XX DT 07-DEC-2001 (first entry)
 XX DE Human breast cancer expressed polynucleotide 14319.
 XX KW Human; breast cancer; cell marker; cytosatic; ss.
 OS Homo sapiens.
 XX PN WO200151628-A2.
 XX PD 19-JUL-2001.
 XX PF 10-JAN-2001; 2001WO-US000798.
 XX PR 14-JAN-2000; 2000US-017607P.
 PR 14-MAR-2000; 2000US-018916P.
 PR 24-MAR-2000; 2000US-019299P.
 PR 29-MAR-2000; 2000US-019348P.
 PR 15-MAY-2000; 2000US-020533P.
 PR 09-JUN-2000; 2000US-0211315P.
 PR 25-JUL-2000; 2000US-0220534P.
 XX PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
 XX PI Lillie J, Xu Y, Wang Y, Steinmann K;
 XX DR WPI: 2001-451856/48.
 XX PT New peptide useful as a marker for the diagnosis of breast cancer.
 XX PS Claim 1; Page 2564-2565; 3695pp; English.
 XX CC The invention relates to human breast cancer expressed polynucleotides
 CC (AAL07544-AAL26789) and methods of assessing whether a patient is
 CC afflicted with breast cancer by examining the correlation between the
 CC expression of certain markers and the cancerous state of breast cells.
 CC The polynucleotides and encoded polypeptides are potential markers for
 CC detecting, diagnosing, monitoring, characterising, treating and
 CC potentially preventing breast cancer. The polynucleotides and encoded
 CC polypeptides are also useful for isolating compounds with cytostatic
 CC activity.
 XX SQ Sequence 778 BP; 220 A; 134 C; 180 G; 244 T; 0 U; 0 Other;
 XX Best Local Similarity 56.5%; Score 37.2; DB 4; Length 778;
 Matches 72; Conservative 0; Mismatches 58; Indels 0; Gaps 0;
 DB Query 27 ATTGAAATAATATGAGGCTCATATAATCTATATTGGTTTACCTTCAGGAGATA 86
 DB 136 ATTGAGTATATTATCTTCATCAATCTACTTCAGGTAGTAAAGAGT 77
 Query 87 TTGAGTTCACTAAGGTTTCAAGTACGGTGTGCTCCAAAAGAACAA 146
 DB 76 TATAGGCAATCAATAAATGGCACAAAAGGTATCCAAAAGGT 17
 Query 147 AAACACAACT 156
 DB 16 AAAGTACCT 7
 Search completed: July 27, 2004, 18:19:56
 Job time : 411 secs